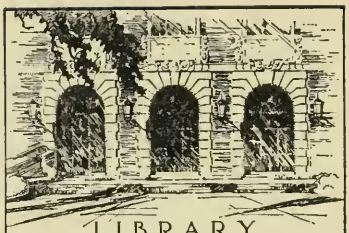

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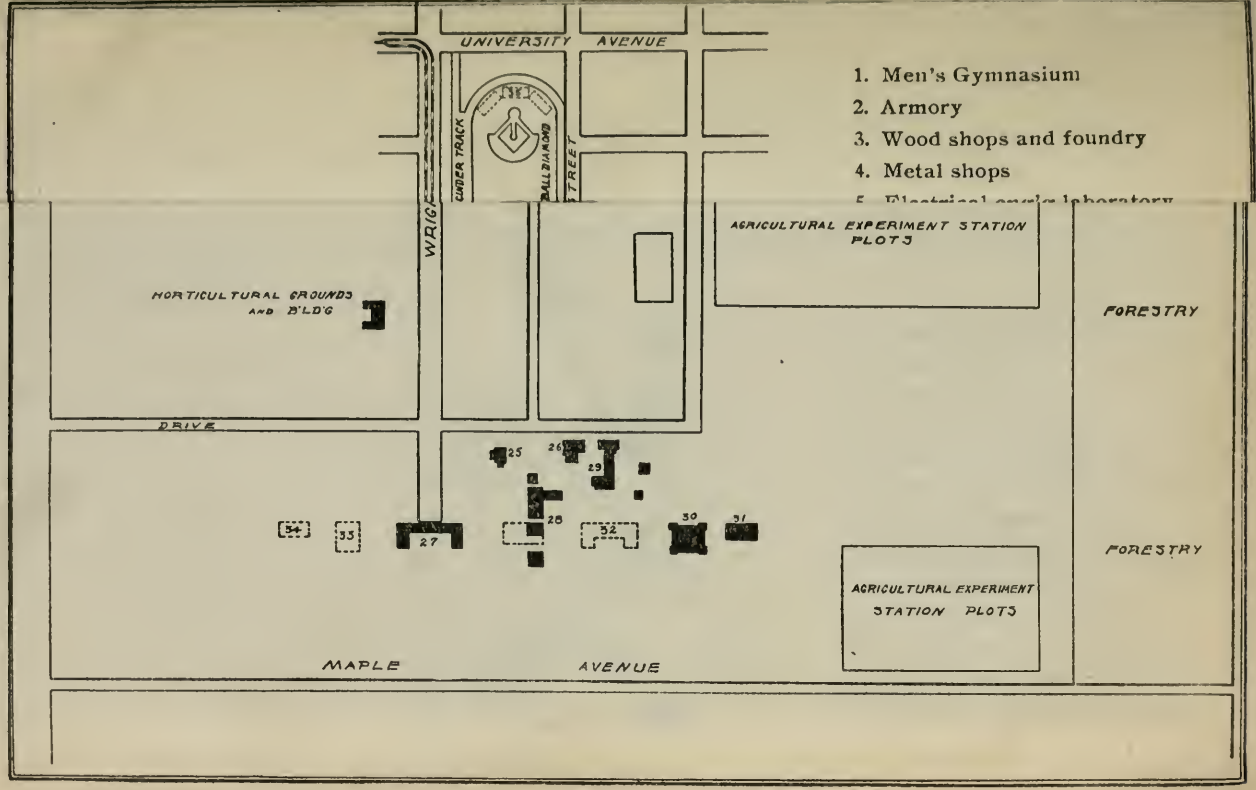
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2. Armory
3. Wood shops and foundry
4. Metal shops
UNIVERSITY AVENUE
WRIGHT STREET
CINDER TRACK
BALL DIAMOND
AGRICULTURAL EXPERIMENT STATION PLOTS
HORTICULTURAL GROUNDS AND B'LD'G
FORESTRY
DRIVE
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AGRICULTURAL EXPERIMENT STATION PLOTS
FORESTRY
MAPLE AVENUE

1. Men's Gymnasium
2. Armory
3. Wood shops and foundry
4. Metal shops
5. Electrical eng'g laboratory
7. Heating plant
8. Pumping plant
9. Laboratory of Appl. Mechanics
10. Engineering Hall
11. Green house
12. President's house
13. Library
14. University Hall
15. Natural History Hall
16. Law building
17. Chemistry building
18. Agricultural building
19. Green houses
20. Astronomical observatory
21. Woman's Hall
22. Auditorium
23. Mechanical Eng'g laboratory
24. State Entomologist's office
25. Farm house
26. Horse barn
27. Beef cattle building
28. Horse building
29. Implement barn
30. Farm Mechanics building
31. Agronomy building

[32. Dairy building]

[33. Sheep building]

[34. Swine building]

35. Baseball grandstand

Learning and Labor

University of Illinois

REGISTER 1907-1908

URBANA, ILLINOIS
PUBLISHED BY THE UNIVERSITY

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THE UNIVERSITY CALENDAR

1908-1909

FOR ALL DEPARTMENTS AT URBANA

1908 — First Semester 1908-1909

Sept. 16, Wednesday, 8 a. m.	Entrance examinations begin.
Sept. 21, 22, Monday and Tuesday.	Registration days.
Sept. 23, Wednesday, 8 a. m.	Instruction begins.
Oct. 5, Monday, 4 p. m.	Senate meeting.
Nov. 2, Monday.	Latest day for announcing thesis subjects.
Nov. 19, 20, 21, Thursday to Saturday.	High school conference.
Nov. 25, Wednesday, 5 p. m.	Thanksgiving recess begins.
Nov. 30, Monday, 8 a. m.	Instruction begins.
Dec. 3, Thursday.	Illinois day.
Dec 7, Monday, 4 p. m.	Senate meeting.
Dec. 11, Friday.	Junior promenade.
Dec. 22, Tuesday, 5 p. m.	Holiday recess begins.
1909	
Jan. 4, Monday, 8 a. m.	Instruction begins.
Jan. 28, Thursday, 8 a. m.	Semester examinations begin.
Feb. 1, Monday, 4 p. m.	Senate meeting.
Feb. 4, Thursday, 5 p. m.	First semester ends.
Feb. 5, Friday.	Annual sophomore cotillion.

Second Semester, 1908-1909

Feb. 8, Monday, 8 a. m.	Instruction begins.
Feb. 12, Friday.	Lincoln day.
Feb. 19, Friday.	Annual military ball.
March 9, Tuesday.	Annual meeting of Board of Trustees.
April 5, Monday, 4 p. m.	Senate meeting.
April 8, Thursday, 5 p. m.	Easter recess begins.

April 13, Tuesday, 8 a. m.	Instruction begins.
May 21, Friday evening.	Interscholastic oratorical contest.
May 20, 21, 22, Thursday to Saturday.	Public school art exhibit.
May 22, Saturday.	Interscholastic athletic meet.
May 30, Sunday.	Memorial day.
June 1, Tuesday.	Hazelton prize drill. Annual inspection. Company competitive drill. Latest day for acceptance of theses.
June 4, Friday.	Military day.
June 5, Saturday, 8 a. m.	Semester examinations begin.
June 12, Saturday.	Semester examinations close.
June 13, Sunday.	Baccalaureate address.
June 14, Monday.	Class day.
June 15, Tuesday.	Alumni day.
June 16, Wednesday.	Thirty-eighth annual commencement.

1908 SUMMER SESSION

June 15, Monday.	Instruction begins.
Aug. 14, Friday.	Session ends.
1909	
June 21, Monday.	Instruction begins.
Aug. 20, Friday.	Session ends.

1909 FIRST SEMESTER, 1909-1910

Sept. 15, Wednesday, 8 a. m.	Entrance examinations begin.
Sept. 20, 21, Monday and Tuesday, 8 a. m. to 5 p. m.	Registration days.
Sept. 22, Wednesday, 8 a. m.	Instruction begins.
Nov. 1, Monday.	Latest day for announcing thesis subjects.
Nov. 24, Wednesday, 5 p. m.	Thanksgiving recess begins.
Nov. 29, Monday, 8 a. m.	Instruction begins.
Dec. 22, Wednesday, 5 p. m.	Holiday recess begins.
1910	
Jan. 3, Monday, 8 a. m.	Instruction begins.
Feb. 3, Thursday, 5 p. m.	First semester ends.

FOR PROFESSIONAL DEPARTMENTS IN CHICAGO

1908.

April 23, Thursday.	Commencement of School of Pharmacy.
May 2, Saturday.	Commencement of College of Dentistry.
June 9, Tuesday.	Commencement of College of Medicine.
	Entrance examinations, College of Medicine.
Sept. 22, Wednesday.	Winter term opens, College of Medicine and School of Pharmacy.

1909

Oct. 8, Thursday.	Term opens, College of Dentistry.
April 29, Thursday.	Commencement, School of Pharmacy.
June 4, Friday.	Spring term for candidates for pharmaceutical chemist closes.
May 29, Saturday.	Commencement, College of Dentistry.
	Commencement, College of Medicine.

CALENDAR 1908, 1909, 1910

Holidays are in italics.

1908

JULY

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1909

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Announcement

Beginning with this issue, the annual catalog, previously combining both Register and Announcements, is strictly a Register, referring to work in progress, and conditions as they are now. There are a few obvious exceptions, such as the calendar and the program of entrance examinations. The Register will hereafter be issued in December.

This volume will be supplemented by a group of College announcements, to be issued in May. These will give more fully the material for each college or school of the University, together with all details of admission and graduation. Persons who know in advance in what college they are to be enrolled should call for the Announcement of that College, and not for the general University Register.

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THE SUPERINTENDENT OF PUBLIC INSTRUCTION.....*Ex Officio*
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	TERM EXPIRES
....	1909
MRS. LAURA B. EVANS, Taylorville.....	1909
LEWIS L. LEHMAN, Mattoon.....	1909
WILLIAM L. ABBOTT, 139 Adams Street, Chicago.....	1911
DR. CHARLES DAVISON, 1010, 103 State Street, Chicago..	1911
MRS. MARY E. BUSEY, Urbana.....	1911
....	1913
MRS. CARRIE T. ALEXANDER, Belleville.....	1913
FRED L. HATCH, Spring Grove.....	1913

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Engineering—Lewis L. Lehman, Chairman; William L. Abbott, Fred L. Hatch.

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Soil Section: Ralph Allen, Delavan; A. N. Abbott, Morrison; F. I. Mann, Gilman; J. P. Mason, Elgin; B. F. Wyman, Sycamore.

Orchard Section: Arthur Bryant, Princeton; J. F. Jolly, Olney; F. D. Voris, Neoga; H. A. Aldrich, Neoga; J. W. Stanton, Richview.

Dairy Section: F. A. Carr, Aurora; Louis Latzer, Highland; C. F. Mills, Springfield; Jane Addams, Hull House, Chicago; J. P. Mason, Elgin.

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Conference Committee on Electric Traction Tests: Wm. L. Abbott, Chief Operating Engineer Chicago Edison Company, and Trustee of the University of Illinois, 139 Adams street, Chicago; L. E. Fischer, Vice President and General Manager Illinois Traction System, Danville; T. P. Gaylord, General Manager Westinghouse Electric Company, 171 La Salle street, Chicago; B. E. Sunny, General Manager General Electric Company, Chicago; L. P. Breckenridge, Director of the Engineering Experiment Station, University of Illinois; Morgan Brooks, Professor of Electrical Engineering, University of Illinois; Edward C. Schmidt, Associate Professor of Railway Engineering, University of Illinois.

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A. W. Gates, Monmouth; W. D. Gates, 602 Chamber of Commerce, Chcago; F. W. Butterworth, Danville; J. W. Stipes, Champaign; D. V. Purington, Chamber of Commerce, Chicago.

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President: Edmund J. James, Ph.D., LL.D. Office, Library Building.

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*President's House, University Campus, U.**

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1101 West Oregon Street, U.

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Evarts Boutell Greene, Ph.D., Dean of the College of Literature and Arts and Professor of History.
1011 South Wright Street, C.

*U. stands for Urbana, C. for Champaign.

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LILY GAVIT KOLLOCK, Ph.D., Dean of Women.
1002½ West California Avenue, U.

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WILLIAM L. PILLSBURY, A.M., Secretary and Registrar. Office, Library Building. Office hours, 2 to 5 p. m.
506 West Elm Street, U.

SAMUEL W. SHATTUCK, C.E., Comptroller. Office, Library Building. Office hours 3 to 5 p. m. *208 West Church Street, C.*

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NATHANIEL HAY, Purchasing Agent.
917 West California Avenue, U.

OREN ELMER STAPLES, Chief Clerk. *606 East Green Street, C.*

JOSEPH MORROW, Superintendent of Buildings.
601 E. Springfield Avenue, C.

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JAMES THEOPHILUS BARRETT, A.M., Assistant, Botany. *1110 West Oregon Street, U.*

ENGINEERING EXPERIMENT STATION

Lester Paige Breckenridge, Ph.B., Director.

Roy W. Rutt, B.S., Assistant to the Director.
107 Chalmers Street, C.

Elizabeth A. Swift, Secretary. *603½ Daniel Street, C.*

Besides the Director, the staff includes the Dean and the heads of departments[1] of the College of Enginering, and the following

Special Investigators

Herbert Fisher Moore, M.M.E., Assistant Professor in the Department of Theoretical and Applied Mechanics.
710 West Hill Street, C.

John McBeath Snodgrass, B.S., Assistant Professor in the Department of Mechanical Engineering.
604 Elm Street, U.

Duff Andrew Abrams, B.S., Associate in the Department of Theoretical and Applied Mechanics. *111 East Healy Street, C.*

Thomas Hamer Amrine, B.S., First Assistant in the Department of Electrical Engineering. *701 South Third Street, C.*

Ward Reid Robinson, B.S., First Assistant in the Department of Theoretical and Applied Mechanics. *706 South Second Street, C.*

Franklin Wales Marquis, B.S., First Assistant in the Department of Railway Engineering. *705 West Green Street, U.*

Frank Lyman Busey, M.E., First Assistant in the Department of Mechanical Engineering. *203 West Green Street, U.*

Allen Burton Cooke, B.S., Assistant in the Department of Mechanical Engineering. *503 Daniel Street, C.*

Research Fellows

Clarence Eugene Noerenberg, B.S., (Architecture.)
706 South Second Street, C.

Willard Leo Egy, B.S., (Physics).
1012 West Springfield Avenue, U.

Charles Kenworthy Francis, M.A., (Chemistry).
705 West High Street, U.

Wilbur Clinton Maddox, B.S., (Electrical Engineering).
309 East Green Street, C.

STATE LABORATORY OF NATURAL HISTORY

STEPHEN ALFRED FORBES, Ph.D., LL.D., Director.

CHARLES ARTHUR HART, Systematic Entomologist.
923 West Green Street, U.
MARY JANE SNYDER, Secretary. *504 East Daniel Street, C.*
FRANK ELMER WOOD, A.B., Assistant in Biological Survey.
603 South Orchard Street, U.
GRACE OSGOOD KELLEY, B.L.S., Librarian.
908 West Oregon Street, U.

THE STATE ENTOMOLOGIST'S OFFICE

STEPHEN ALFRED FORBES, Ph.D., LL.D., State Entomologist.

CHARLES ARTHUR HART, Systematic Entomologist.
923 West Green Street, U.
JAMES ALEXANDER WEST, A.M., Chief Horticultural Inspector, and Field Assistant. *806 South Second Street, C.*
HAROLD EDWARD HODGKISS, B.S., Field Assistant.
LINDLEY M. SMITH, B.S., Field Assistant.
JOHN JUNE DAVIS, B.S., Field Assistant. *407 Daniel Street, C.*
ALECANDRÈ ARSÈNE GIRAULT, B.S., Insectary Assistant.
908 West Illinois Street, U.
WESLEY PILLSBURY FLINT, Manager of Insecticide Operations.
ERNEST HARLEN SCOTT, Stenographer.
904 West Stoughton Street, U.

STATE WATER SURVEY

EDWARD BARTOW, Ph.D., Director. *1007 West Oregon Street, U.*

THOMAS J. BURRILL, Ph.D., LL.D., Consulting Bacteriologist.
1007 West Green Street, U.
SAMUEL WILSON PARR, M.S., Consulting Chemist.
919 West Green Street, U.
ARTHUR NEWELL TALBOT, C.E., Consulting Engineer.
1011 West California Avenue, U.
LEWIS ISAAC BIRDSALL, A.B., Assistant Chemist.
924 West Illinois Street, U.
FRANK BACHMANN, Acting Bacteriologist. *705 West High Street, U.*

†Stanley Elmer Targett, Acting Bacteriologist.
705 West High Street, U.
*Walter Dennis Collins, A.B., Chemist.
*Cecil K. Calvert, Assistant Chemist.
Andrew Clifford Wilkins, Clerk. *105 West University Avenue, C.*

STATE GEOLOGICAL SURVEY

Commission

Governor C. S. Deneen, Chairman.
Professor T. C. Chamberlain, Vice-Chairman.
President E. J. James, Secretary.
Harry Foster Bain, Director. *104 East Green Street, C.*

Frank Wallbridge DeWolf, Assistant State Geologist.
408 East Healy Street, C.
Edward Bartow, Consulting Chemist in Water Analysis.
1007 West Oregon Street, U.
Ulysses S. Grant, Consulting Geologist in Lead and Zinc Work.
Northwestern University, Evanston.
Samuel Wilson Parr, Consulting Chemist in Coal Investigations.
919 West Green Street, U.
Charles Wesley Rolfe, Consulting Geologist in Clay Investigations. *601 East John Street, C.*
Rollin D. Salisbury, Consulting Geologist in Preparation of Educational Series. *University of Chicago, Chicago.*
Thomas Edmund Savage, Geologist. *702 West Oregon Street, U.*
Stuart Weller, Geologist. *University of Chicago, Chicago.*
J. A. Udden, Geologist. *Augustana College, Rock Island, Ill.*
Edwin Fuller Lines, Assistant Geologist.
1108 South Third Street, C.
T. E. Fletcher, Resident Engineer. *St. Elmo, Illinois.*
E. W. McCrary, Assistant Engineer. *908 West Green Street, U.*
Lee Morrison, Assistant Engineer. *Urbana.*
S. K. Atkinson. *930 West Green Street, U.*
W. F. Wheeler, Assistant Chemist. *80 West Main Street, U.*
G. M. Wood, Clerk. *1107 West Clark Street, U.*

†To December 31, 1907.
*Field Assistants United States Geological Survey.

PART I

GENERAL INFORMATION

INTRODUCTORY

The University comprises the following colleges and schools, part of them located at Urbana and part of them in Chicago. Those at Urbana are:

The Graduate School.

The Colleges of Liberal Arts, including the College of Literature and Arts and the College of Science, the School of Education, and the Courses in Training for Business.

The College of Engineering, including the School of Railway Engineering and Administration.

The College of Agriculture.

The College of Law.

The School of Library Science.

The School of Music.

Those in Chicago are:

The College of Medicine.

The School of Pharmacy.

The College of Dentistry.

In connection with the College of Agriculture the Agricultural Experiment Station for Illinois is maintained at Urbana, partly by State and partly by Federal appropriations.

The Engineering Experiment Station, established by the State Legislature in 1903, is at Urbana, in connection with the College of Engineering.

The offices of the State Laboratory of Natural History, State Entomologist, State Water Survey, and State Geological Survey are located at Urbana.

The University Campus is within the corporate limits of Urbana, the west edge of the Campus being the dividing line between Urbana and Champaign. The post office, express, and telegraph services of both cities are, therefore, equally available for the University. The two cities are connected by an electric street railway, which runs through the University grounds, with ten-minute service.

The University station of the Urbana post office is in the Library building.

The University station of the Postal Telegraph Company is in the Electrical Engineering Laboratory.

HISTORY

The University of Illinois is situated in Champaign county, in the eastern central part of the state, between the cities of Urbana and Champaign, and within the corporate limits of the former. It is one hundred and twenty-eight miles south of Chicago, at the junction of the Illinois Central, the Cleveland, Cincinnati, Chicago and St. Louis, and the Wabash railroads. The country around is a rich and prosperous agricultural region. The cities of Urbana and Champaign have, together, a population of about 20,000.

In 1862 the national government donated to each state in the Union public land scrip in quantity equal to 30,000 acres for each senator and representative in congress, "for the endowment, support, and maintenance of at least one college, whose leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts * * * in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

On account of this grant the State pays the University, semi-annually, interest at the rate of five per cent. on about $610,000 and deferred payments on land contracts amounting approximately to $35,000.

To secure the location of the University several counties entered into competition by proposing to donate to its use specified sums of money, or their equivalent. Champaign County offered a large brick building in the suburbs of Urbana, erected for a seminary and nearly completed, about 1,000 acres of land, and $100,000 in county bonds. To this the Illinois Central Railroad added $50,000 in freight.

The state has from time to time appropriated various sums for permanent improvements, as well as for maintenance. The present value of the entire property and assets is estimated at $3,000,000.

The institution was incorporated February 28, 1867, under the name of the Illinois Industrial University, and placed under the control of a Board of Trustees, constituted of the Governor, the Superintendent of Public Instruction, and the President of the State Board of Agriculture, as *ex-officio* members, and twenty-eight citizens appointed by the Governor. The chief executive officer was called Regent, and was made an *ex-officio* member of the Board and presiding officer both of the Board of Trustees and of the Faculty.

In 1873 the Board of Trustees was reorganized, the number of appointed members being reduced to nine and of *ex-officio* members to two—the Governor and the President of the State Board of Agriculture. In 1887 a law was passed making membership elective, at a general state election, and restoring the Superintendent of Public Instruction as an *ex-officio* member. There are, therefore, now three *ex-officio* and nine elective members. Since 1873 the President of the Board has been chosen by the members from among their own number for a term of one year.

The University was opened to students March 2, 1868. The number of students enrolled at this time was about fifty, and the Faculty consisted of the Regent and three professors. In the course of the first term another instructor was added, and the number of students increased to 77—all young men.

During the first term instruction was given in algebra, geometry, physics, history, rhetoric, and latin. Work on the farm and gardens, or about the buildings, was at first compulsory for all students. In March of the next year, however, compulsory labor was discontinued, save when it was made to serve as a part of class instruction. A chemical laboratory was fitted up during the autumn of 1868. Botanical laboratory work began the following year. In January, 1870, a mechanical shop was fitted up with tools and machinery, and here was begun the *first shop instruction* given in any American university. During the summer of 1871 the Wood Shops and Testing Laboratory, burned on June 9, 1900, were erected and equipped for students' shop work in both wood and iron.

On March 9, 1870, the Trustees voted to admit women as students. In the year 1870-71 twenty-four availed themselves of the privilege. Since that time they have constituted from one-sixth to one-fifth of the total number of students.

According to the original state law, the usual diplomas and degrees could not be granted by the University, but certificates showing the studies pursued and the attainments in each were given instead. The certificates proved unsatisfactory to the holders, and in 1877 the legislature gave the University authority to confer degrees and issue diplomas.

In 1885 the legislature changed the name of the institution to the University of Illinois.

In 1890 the Congress of the United States made further appropriations for the endowment of the institutions founded under the act of 1862. Under this enactment each such college or university

received the first year $15,000, the second $16,000, and thereafter was to receive $1,000 a year additional to the amount of the preceding year, until the amount reached $25,000, which sum was to be paid yearly thereafter.

May 1, 1896, the Chicago College of Pharmacy, founded in 1859, became the *School of Pharmacy of the University of Illinois.* Its building is located at Michigan Boulevard and Twelfth Street, Chicago.

Pursuant to action of the Board of Trustees, taken December 8, 1896, the School of Law was organized, and opened September 13, 1897. The course of study covered two years, in conformity with the existing requirements for admission to the bar of Illinois. In the following November, however, the supreme court of the state announced rules relating to examinations for admission to the bar which made three years of study necessary, and the course of study in the Law School was immediately rearranged on that basis. On February 9, 1900, the name of the School of Law was changed, by vote of the Board of Trustees, to *College of Law.*

Negotiations looking to the affiliation of the College of Physicians and Surgeons, of Chicago, with the University, which had been going on for several years, were concluded by the Board of Trustees, March 9, 1897. Accordingly the College of Physicians and Surgeons became, on April 21, 1897, the *College of Medicine of the University of Illinois.* The College is located at Congress and Honore Streets, Chicago.

In 1897, the matter of the reorganization of the University Library was considered by the Board of Trustees, with the result that the School of Library Economy which had been established in 1893 at the Armour Institute of Technology, in Chicago, was transferred to the University, and the Director of that school was appointed librarian of the University Library. In accordance with these acts the *State Library School* was opened at the University in September, 1897.

In accord with action taken by the Board of Trustees March 12, 1901, a School of Dentistry was organized as a department of the College of Medicine. The School was opened October 3, 1901. The name was changed to *College of Dentistry,* April 27, 1905.

Supplementing its action taken on January 30, 1906, in creating in the College of Engineering a Department of Railway Engineering, the Board of Trustees, on January 22, 1907, established the *School of Railway Engineering and Administration.*

BUILDINGS AND GROUNDS

The land occupied by the University and its several departments embraces about 220 acres, besides a farm of 400 acres.

The Agricultural Building consists of four separate structures, built around an open court and connected by corridors. The main building contains offices, class rooms, and laboratories; administration rooms; and an assembly room with a seating capacity of 500. The other three buildings are each two stories high These buildings contain, all told, 113 rooms. An adjacent glass structure serves the departments of agronomy and horticulture.

The Agronomy Building is 50 by 100 feet in size, constructed of brick and slate, trimmed with stone. It contains a field laboratory for crop work in which yields of experimental plats are studied, sample seeds are stored and specimens are preserved.

The Armory, which has a clear floor space of 15,000 square feet in one hall, gives ample space for company drill and for large audiences upon special occasions.

The Astronomical Observatory is a brick building with extreme dimensions of 75 by 55 feet. It has three wings and is surmounted by a dome 25 feet in diameter. In addition to the equatorial room, the Observatory contains four transit rooms, a clock room, a dark room, a recitation room, and a study.

The Auditorium is a brick and stone building for general meeting purposes. It contains an auditorium seating about 2200, and a memorial vestibule, all under one large dome. All general university exercises, including convocations and the commencement formalities, are conducted in this building.

The Beef Cattle Building is a one story building of brick and slate, trimmed with stone, 217 feet across the front, with a wing at either end 33 by 49 feet; the central portion rises two stories and is used for the storage of feed. Other portions of the building are used as quarters for the breeding herd of beef cattle.

The Central Heating Station is a brick building, 55 by 120 feet. It contains boilers of 1800 horse power, which furnish steam for heating and power purposes for the buildings on the campus. An annex contains the pump room and the stock room. The pipes of the heating system and the wires for power and light are carried from the Central Heating Station to the several buildings through brick tunnels. The length of tunnel thus far constructed is 3,200 feet.

The Chemical Laboratory is a three story building, the ground plan of which is shaped like the letter E. The extreme dimensions are 230 feet along the front and 116 feet along the wings. The middle rear wing contains the lecture amphitheater, which will seat 350. The end wings contain the general laboratories. The central part of the building is occupied by offices, museum, class and seminary rooms, supply rooms, and a number of special rooms for research work. There is a well-lighted basement, which contains the heating and ventilating plant, and rooms for assaying and metallurgy. In this building are also located the offices and equipment of the State Water Survey and the State Geological Survey.

The Electrical Engineering Laboratory is a two-story brick building, 100 feet by 50 feet, with a wing 90 feet by 50 feet. A basement under the main part contains the storage battery room, calibration room, high-potential laboratory and shop. The main floor is the laboratory proper containing the machinery and apparatus described under "Equipment." The second floor has three recitation rooms, photometric and telephone laboratories, the reading room of the Electrical Engineering Society, and the offices of the department. The wing contains the University automatic telephone exchange and the power and lighting plant.

In an adjacent building are found the storage room and the inspection pit for the electric test car, described elsewhere.

Engineering Hall is a four story building with a frontage of 200 feet, a depth of 76 feet on the wings, 138 feet on the center, and a net room area of 47,000 square feet. On the first floor are the instrument rooms and work shops of the departments of physics and civil engineering, and the laboratories for advanced physics. On the second floor are the offices and recitation and drawing rooms for the departments of civil, municipal and electrical engineering, and the physics lecture room. On the third floor are located the offices of the Dean of the College and of the Director of the engineering experiment station; the department of mechanical engineering, and the laboratory for elementary physics occupy the rest of the floor. The fourth floor is devoted to the architectural department and contains the architectural library and the laboratory of the department of blue-printing and photography.

The Farm Mechanics Building is 100 by 100 feet in size, three stories in height, and constructed of brick. It contains class rooms and laboratories for the general subject of farm mechanics.

The Horticultural Building is a structure of brick and slate, trimmed with stone, approximately 50 by 100 feet in size. It is used as a field laboratory for horticultural tests; besides it contains sorting rooms, cold storage, and a laboratory for the mixing of spraying materials, as well as for other operations in connection with the horticultural work.

The Law Building is the second oldest building in the University group. It was remodeled throughout in 1902, and has two stories and a basement. The upper floor contains the Law Library, the students' conference room, the private offices of the members of the Law Faculty and the Moot Court Room, a model court room with a seating capacity of four hundred. On the main floor are the recitation rooms, the Dean's offices and the Faculty room, the students' lounging room, and cloak and locker room. In the basement are the lavatories and store rooms.

The Library Building contains the general University library and temporarily some administrative offices. The main floor contains the reference room, the periodical room, the reading rooms, and the delivery room, which opens into the second story of the book-stack. The second floor contains the Library School study room, the Bolter collection of insects, and the administrative offices of the University. The Library School lecture room, the bibliography, and the order and catalog departments are in the basement. The book-stack is a rear wing to the building, separated from the rest of it by a fireproof wall. The stack will eventually contain five stories, and will accommodate 150,000 volumes. At present but three stories are fitted with shelving.

The Laboratory of Applied Mechanics is a brick building, having a net floor area of 16,000 square feet. The front part contains the materials testing laboratory while the rear wing contains the hydraulic laboratory.

The Mechanical Engineering Laboratory is a brick building with a frontage of 120 feet, a total depth of 182 feet, and a net floor area of 24,000 square feet. The front section is two stories high, and contains offices, lecture and computation rooms, and a large instrument room. Back of this are three bays. The middle bay is provided with a concrete testing floor and a 10-ton three-motor traveling crane of 38-feet span. The north bay contains a 5-ton traveling crane and for the present is used for laboratory work in connection with the departments of civil and electrical engineering and theoretical and applied mechanics.

The Men's Gymnasium is a three-story building of stone and pressed brick, 100 by 150 feet. On the first floor there is a swimming pool, 26 feet wide, 75 feet long, and 8 feet deep at the lower end, lined with white enamel bricks. This floor contains, also, the general locker room, which is fitted up with all-metal lockers, and with shower, tub, and steam baths; rooms for the University athletic teams; a room for visiting teams; a special dressing room for members of the faculty; and offices for the physical director and athletic instructors. The entire second floor is one large room, which is fitted up with all the modern appliances for gymnastic exercises. The third floor contains an elevated running track, 15 laps to the mile, which is properly banked on the turns to secure the greatest speed and comfort in running.

The Metal Shops occupy a one-story brick building, with a net floor area of 12,000 square feet, containing a lecture room, two office rooms, a machine shop, and a forge shop. The machine shop is 48 by 140 feet. Power is supplied by a 20 H. P. electric motor. A three-ton traveling crane of 12-foot span covers the center of the floor for the entire length.

Natural History Hall is occupied by the departments of botany, zoology, physiology, minerology, and geology, for each of which there are laboratories, lecture rooms, and offices. There are six laboratory rooms on each of the main floors,—sufficient altogether to accommodate 200 students, besides offering facilities for the private work of the instructors.

The Pumping Station of the University water-works is a brick building, 38 by 73 feet, connected with the Central Heating Plant. Four 8-inch wells, 145 feet deep, supply the University with wholesome water. A masonry reservoir provides for a fire-reserve supply. The pumps, tanks, and connections are arranged to give opportunities for experimental work and also to vary the working conditions in the adjacent hydraulic laboratory. In this building is kept the equipment of the University fire department.

University Hall, the oldest of the University buildings, occupies three sides of a quadrangle. It is devoted almost exclusively to class rooms.

The Woman's Building, is in pure New England colonial style of architecture, of reddish brown brick, with white stone trimmings. The central part of the structure is the woman's gymnasium. On the lower floor there are a swimming tank, lockers, dressing rooms,

and baths. The upper floor is devoted to the main gymnasium, which is 92 by 50 feet. The play ground adjacent to the gymnasium includes basket ball, tennis, and hockey courts, with ample room for other games. The north wing of the building is given to the department of household science, and the south wing provides rooms for the social life of the women students.

The Wood Shop and the *Foundry* occupy a brick building which has a net floor area of 16,000 square feet. The part of the building devoted to the wood shop contains a bench room, lathe room, machine room, and various smaller rooms for lectures, exhibition purposes, etc. The part devoted to the foundry has a large molding floor traversed by a 5-ton traveling crane, and a large basement room for storage of materials.

LIBRARIES

FRANCIS KEESE WYNKOOP DRURY, A.M., B.L.S., Acting Head Librarian.

The general University library includes all the books belonging to the colleges and schools of the University which are situated in Urbana. The libraries of the Colleges of Medicine and Dentistry, and the School of Pharmacy, are in Chicago, and are described in connection with those institutions.

On January 1, 1908, the several libraries contained the following number of bound volumes and pamphlets:

	Volumes.	Pamphlets.
General library	103,721	12,848
State Laboratory of Natural History library	6,060	16,440
Pedagogical library	1,500	3,000
Quine medical library	12,333	
Pharmacy library	1,500	500

The *General Library* is the central collection of books housed in the Library building and is for the use of the whole university. The corps of instruction and administrative officers of the University, the graduate students and the members of the senior class have direct access to the shelves; other students may have this privilege upon recommendation by their instructors. All students have the direct use of 10,700 volumes in the reading rooms. The library receives 1100 periodicals, the current numbers of which are

available in the East tower room. As a part of the General Library are included several special collections:

The *University of Illinois collection,* constituting practically the archives of the institution, and including printed material illustrating the history of the University, 250 volumes. Location: Bibliography room.

College publications collection, comprising the catalogs, announcements, reports, studies, etc., of other educational institutions, 3,000 volumes. Location: Stack, 1st floor.

Theses collection, a complete file of the original copies of the theses presented for graduation from the University of Illinois. They are bound and filed by years. 1,400 volumes. Location: Stack, 1st floor.

United States Public Documents collection, being the congressional or sheepbound set located here as a designated depository library. 5,500 volumes. Location: Document and Bibliography rooms.

Specifications and Patents collection, a set of the United States specifications and patents, including the Official Gazette of the Patent office, and the abridgments of the British office. 200 volumes. Location: Room 320.

The Dziatzko collection of Library Economy, bought in 1905, the entire library of Karl Dziatzko, librarian of Göttingen University. 300 volumes; 250 pamphlets. Location: Library School room.

The Dittenberger collection of the Classics, bought in 1907, the entire library of Wilhelm Dittenberger, professor of Classical Philology in the University of Halle. 5,600 items. Location: Senate room.

DEPARTMENTAL LIBRARIES

Practical use of the books has separated several collections from the library building. Fifteen departments now have books permanently in their care. Seminar rooms also are provided in the library building as far as rooms are available.

MASON LIBRARY OF WESTERN HISTORY

The valuable library of western history collected by Edward G. Mason, Esq., long president of the Chicago Historical society, is in the Public Library of the city of Champaign, and is accessible to University students.

USE OF THE LIBRARY

The general library is open week days during general sessions of the University from 7:50 a.m. to 10 p.m. It is also open, for reading only, on Sundays from 2 to 6 p.m. Special opening hours are provided for during the summer session and the recesses.

LABORATORIES*

SCIENCE.—The *botanical, geological, physiological, zoological,* and *ceramic laboratories* are in Natural History Hall.

The *chemical laboratory* occupies the building of the same name, already described.

The *physical laboratories* are in Engineering Hall.

The *psychological laboratory,* in University Hall, is well provided with apparatus for use in experimental study, research, and instruction.

ENGINEERING.—The *cement* and *road laboratories* of the department of civil engineering occupy two rooms in the Mechanical Engineering Laboratory.

The *electrical engineering laboratory* and the *mechanical engineering laboratory* each occupies its own building, as already described under "Buildings and Grounds."

The *hydraulics laboratory* and the *materials testing laboratory* occupy the Laboratory of Applied Mechanics.

SPECIAL RESEARCH LABORATORIES.—The *chemical laboratory of the Agricultural Experiment station* and the *physical* and *bacteriological laboratories* for the examination of soils are on the third floor of the Agricultural Building.

The *State Laboratory of Natural History* is in Natural History Hall.

A *laboratory for sanitary water analysis* has been equipped with all necessary appliances, and chemical investigation of the water supplies of the state is carried on. It is in the chemical laboratory building.

A *laboratory of economic geology,* for the investigation of clays, lime and cement-making materials, building stones, road materials, and all other mineral substances of economic value, has been equipped with the necessary appliances for such investigations.

*For a more detailed account of these laboratories, see under the appropriate colleges.

A fully equipped *laboratory of ceramics* provides facilities for the study of clays and clay products with reference to their properties and the methods of treatment which will produce the best wares.

MUSEUMS AND COLLECTIONS

Agricultural.—The various agricultural departments maintain collections illustrative of their work, prominent among which are those showing typical specimens of standard varieties of corn, wax models of fruit and vegetables, an extensive horticultural herbarium, specimens of many breeds of live stock, a large collection of farm machinery, and exhibits of negatives and samples showing the progress of certain investigations, especially with fruits, crops, and soils.

Art.—The University Art Gallery was the gift of citizens of Champaign and Urbana. It occupies a room in the basement of the Library Building, and furnishes an excellent collection of models for students of art. In sculpture it embraces thirteen full-size casts of celebrated statues, forty statues of reduced size, and a large number of busts and bas-reliefs, making in all over 400 pieces. It includes also hundreds of large autotypes, photographs, and fine engravings, representing many of the great masterpieces of painting of nearly all the modern schools, and a gallery of historical portraits, mostly large French lithographs, copied from the national portrait galleries of France.

Other collections of special value to art students embrace a number of casts of ornament from the Alhambra and other Spanish buildings, presented by the Spanish government; a set of casts from Germany, illustrating German renaissance ornament; a series of art works from the Columbian Exposition; and many miscellaneous casts, models, prints, and drawings.

Botanical.—The *herbarium* contains about 65,000 mounted specimens of plants. The flora of North America is fairly well represented, the collection of species of flowering plants indigenous to Illinois is particularly complete, and a considerable collection of foreign species has been made. The collections of fungi amount to 32,000 named specimens and include a full set of those most injurious to other plants, causing rusts, smuts, moulds, etc.

Commercial.—For its courses in industrial economics and commerce the University has a good working collection of the materials

of commerce, a lantern and several hundred slides, a liberal supply of political and industrial maps, diagrams and stereoscopic views illustrating various phases of commerce and industry. Most of the articles constituting the commercial museum are the gift of the Philadelphia Commercial Museum.

ENGINEERING.—The following departments of the College of Engineering have extensive and valuable collections, which are placed in rooms in Engineering Hall.

Architecture.—A large number of specimens of stone, brick, terra cotta, sanitary fixtures, casts of moldings and of ornament are in the collection, together with some excellent specimens of industrial art, models of structures, working drawings of imporant buildings, 8,500 lanterns slides, 20,000 plates and photographs, and an excellent working library, with large classified collections of plates from the architectural journals, and 2,400 stereoscopic views of buildings, etc.; a complete set of Hough's American Woods, 250 species shown by three sections each; larger Hough's hand specimens of 300 American woods comprising 3 to 4 pieces in each; and a collection of builders' hardware and fixtures.

Civil Engineering.—The civil engineering department has samples of iron, steel, wood, brick, and stone; materials for roads and pavements; models of arches and trusses, one of the latter being full-sized details of an actual modern railroad bridge. The department also possesses a very large collection of photographs and blueprint working drawings of bridges, metal skeleton buildings, masonry structures, standard railroad construction, etc.

Electrical Engineering.—This department has a collection of samples illustrating standard practice in the industrial applications of electricity. There is also a rapidly growing collection of lantern slides, photographs, blue-prints, drawings, pamphlets, and other engineering data.

Mechanical Engineering.—This department includes in its equipment among other things, part of a set of Reuleaux models, models of valve gears, sections of steam pumps, injectors, valves, skeleton steam and water gauges, standard packings, steam-pipe coverings, and drop forgings. There are also examples of castings, perforated metal, defective boiler plates, and set of drills, with numerous samples of oil, iron, and steel. A large number of working drawings from leading firms and from the United States Navy Department forms a valuable addition to these collections.

Geological.—The geological collections are to be found in the Natural History Building. *Lithology* is represented by type collections of rocks (9,000 specimens), arranged to illustrate Rosenbusch; from Voigt and Hochgesang, L. Eger, and A. Kranz; a type collection from Ward; 1,000 thin sections of rocks and minerals; a large number of ornamental building stones; a stratigraphic collection to illustrate Illinois geology, and a collection of Illinois soils (104).

The *mineralogical* collection is especially rich in rock-forming minerals, ores, and materials of economic value. It contains over 12,000 specimens carefully selected to meet the wants of the students, and 575 crystal models, a considerable collection of gems and precious stones, and one of polished marbles, granites, and other ornamental stones.

The *palcontological* collection (49,000 specimens) contains representative fossils from the entire geologic series, but is especially rich in paleozoic forms. It embraces the private collections of A. H. Worthen (including 742 type specimens); Tyler, McWhorter; Mr. Hertzer; 200 thin sections of corals; the Ward collection of casts, and a considerable number of special collections representing the fauna and flora of particular groups.

Library Economy.—A collection of books and pamphlets on library science, of library reports and catalogs, of mounted samples showing methods of administration in all departments, and of labor-saving devices and fittings has been made, and is arranged by the Dewey decimal classification in the Library School study room.

Pedagogical.—In the rooms of the department of education in University Hall is a considerable collection of illustrative material from the manual training departments of various schools; photographs of school buildings, drawings and constructive work by pupils in the public schools, and the nucleus of a representative collection of apparatus for the school laboratory.

Zoological.—The zoological collections have been specially selected and prepared to illustrate the courses of study in natural history, and to present a synoptical view of the zoology of the state. They are to be found partly in University Hall, partly in the Natural History building, and partly in the Library building.

The mounted mammals comprise an unusually large and instructive collection of the ruminants of our country, including male and female moose, elk, bison, deer, antelope, etc., and also several quadrumana, large carnivora and fur-bearing animals, numerous

rodents, good representative marsupials, cetaceans, edentates, and monotremes. Fifty-nine species of this class are represented by one hundred and one specimens and all the others, excepting the Sirenia, are represented by mounted skeletons. There is also a series of dissections in alcohol, illustrating the comparative anatomy of the group.

The collection of mounted birds includes representatives of all the orders and families of North America, together with a number of characteristic tropical, Bornean, and New Zealand forms. The collection is practically complete for Illinois species. There is also a fine collecion of the nests and eggs of Illinois birds. A series of several hundred unmounted skins is available for the practical study of species, and the internal anatomy is shown in alcoholic dissections, and in mounted skeletons of all the orders.

The cold-blooded vertebrates are represented by a series of mounted skins of the larger species, both terrestrial and marine; mounted skeletons of typical representatives of the principal groups; alcoholic specimens, both entire and dissected, and casts. The alcoholics include series of the reptiles, amphibians, and fishes, the latter comprising about 300 species. The dissections illustrate the internal anatomy of the principal groups. The casts represent about seventy-five species, nearly all fishes.

The Mollusca are illustrated by alcoholic specimens of all classes and orders, and dissections showing the internal anatomy of typical forms. There are several thousand shells belonging to 1,700 species. The collection of Illinois shells is fair but incomplete.

The collection of insects has been greatly extended and enriched by the Bolter Collection, donated to the University by the executors of the estate of the late Andreas Bolter, of Chicago, which now contains over 16,000 species, represented by about 120,000 specimens, named, labeled, and systematically arranged.

The lower invertebrates are represented by several hundred dried specimens and alcoholics and by a large series of the famous Blaschka glass models.

The embryology of vertebrates and invertebrates is illustrated by several sets of Ziegler wax models, and numerous series of slides, sections, and other preparations.

In addition to the above, the extensive collections of the State Laboratory of Natural History, peculiarly rich in Illinois materials, are available for illustrative purposes, as well as for original investigation by advanced students.

ADMINISTRATION

GOVERNMENT.—The government of the University is vested by law primarily in the Board of Trustees. This Board consists of nine members elected by the people for a term of six years. The term of three members of the Board expires every second year.

Besides the elective members, the Governor of the State, the President of the State Board of Agriculture, and the Superintendent of Public Instruction are *ex-officio* members.

The administration of the University is vested by the Trustees in the President of the University, the Senate, the Council of Administration, the Faculties of the various colleges, and the Deans.

The President is the administrative head of the University.

The Vice-President has general oversight of the work of instruction in the University and acts for the President in case of his absence or disability.

The Dean of the Graduate School carries out University regulations concerning the Graduate School and has special supervision of its work.

The Dean of each college is responsible for carrying out all University regulations within his college.

The Dean of Undergraduates acts as adviser to undergraduate male students and is charged with general care of the conduct of these students.

The Council of Administration is composed of the President, the Vice-President, the Dean of the Graduate School, the Dean of Undergraduates, and the Deans of the separate colleges. It constitutes an advisory board to the President, and has exclusive jurisdiction over all matters of discipline. The Council does not determine educational policy; but when any matter arises which has not been provided for by common usage, or by rule of the Senate, and cannot be conveniently laid over till the next meeting of the Senate, the Council may act upon the same according to its discretion.

The Senate, composed of those members of the faculty in charge of separate departments of the various colleges and schools, and all other full professors, is charged with the direction of the general educational policy of the University.

The Faculties of the colleges and schools of the University, composed of the members of the corps of instruction of these colleges and schools, have jurisdiction, subject to higher University authority, over all matters which pertain exclusively to these organization.

ORGANIZATION.—For the purpose of administration, the University is divided into several colleges and schools. They are not educationally separate, but are interdependent, and together form a unit. The colleges and schools are as follows:

I. The College of Literature and Arts.
II. The College of Engineering.
III. The College of Science.
IV. The College of Agriculture.
V. The Graduate School.
VI. The School of Library Science.
VII. The School of Music.
VIII. The College of Law.
IX. The College of Medicine.
X. The College of Dentistry.
XI. The School of Pharmacy.
XII. The School of Education.
XIII. The School of Railway Engineering and Administration.

The College of Literature and Arts offers a wide range of subjects[1] in philosophy and arts, including:

1. Art.
2. The ancient classical languages.
3. English literature and language, including rhetoric.
4. The Romance languages.
5. The Germanic languages.
6. The political and social sciences, including history, economics, sociology, anthropology, and science of government.

The work in economics is so developed on the industrial side that, taken in combination with other subjects, it furnishes

7. Courses of training for business.
8. Mathematics.
9. Philosophical subjects, including philosophy, mathematics, psychology, education, and ethics.
10. Household Science.

[1]Besides the subjects mentioned under each college and school, courses in Military Science and Physical Training are provided in all the colleges and schools in Urbana.

The College of Engineering offers courses in—

1. Architecture.
2. Architectural Engineering.
3. Architectural Decoration.
4. Civil Engineering.
5. Electrical Engineering.
6. Mechanical Engineering.
7. Municipal and Sanitary Engineering.
8. Railway Civil Engineering.
9. Railway Electrical Engineering.
10. Railway Mechanical Engineering.

The College of Science offers courses in—

1. General Science.
2. Chemistry.
3. Chemical Engineering.
4. Combined Course in Medicine and Science.
5. Ceramics.
6. Ceramic Engineering.
7. Cement making.

The College of Agriculture offers courses in—

1. Agronomy.
2. Animal Husbandry.
3. Dairy Husbandry.
4. Horticulture.
5. Household Science.
6. Veterinary Science.

The Graduate School offers courses in: Agronomy, Animal Husbandry, Architecture, Astronomy, Botany, Chemistry, Civil Engineering, Dairy Husbandry, Economics, Education, Electrical Engineering, English Language and Literature, French, Geology, German, Greek, History, Horticulture, Household Science, Latin, Mathematics, Mechanical Engineering, Mechanics, Municipal and Sanitary Engineering, Philosophy, Physics, Physiology, Psychology, Political Science, Railway Engineering, Sociology, Thremmatology, and Zoology.

For further information see General Description of Courses, in Part III. The distinctively graduate courses are usually numbered 101, 102, etc., under each subject, but some of the courses open to undergraduates may also be taken for credit towards an advanced degree. See Graduate School, page 129.

The School of Library Science, or the State Library School, offers a course of study extending over five years, three of which are in either the College of Literature and Arts or the College of Science. The last two years are devoted to courses in Library Science in the Library School. The full course leads to the degree of bachelor of library science.

The School of Music offers courses in vocal and instrumental music, leading to the degree of bachelor of music.

The College of Law offers a course of study leading to the degree of bachelor of laws.

The College of Medicine offers a course of study leading to the degree of doctor of medicine.

The School of Pharmacy offers courses in all branches necessary to a complete scientific and practical knowledge of pharmacy, including pharmacy, chemistry, materia medica, botany, physics, and physiology. The courses lead to the degrees of graduate in pharmacy, and pharmaceutical chemist.

The College of Dentistry offers a three-year course leading to the degree of doctor of dental surgery.

The School of Education enrolls, at the beginning of their junior year, students already registered in other colleges of the University who are preparing to teach, and directs their work for the remaining two years.

The School of Railway Engineering and Administration offers courses of study leading to the degree of bachelor of science in railway civil, railway electrical, and railway mechanical engineering, and a course in railway administration leading to the degree of bachelor of arts.

ADMISSION

An applicant for admission to any of the colleges or schools of the University must be at least sixteen years of age, and must offer credit for fifteen units* of high school or other secondary school work, so chosen as to include those prescribed for the particular college he desires to enter. This credit can be secured by

(a) Examination (see page 30).

(b) A certificate from a fully accredited high school (see page 31).

(c) Transfer from some other university or college (see page 38).

Of the fifteen units required for admission, the 5½ units in list A are prescribed for admission to the freshman class in all the colleges and schools of the University, and no substitutions are accepted.

Prescribed by all Colleges

List A:	Algebra	1½ units	
	English composition	1 unit	
	English literature	2 units	
	Geometry, plane	1 unit	5½ units

Certain ones of the 9½ additional units required for admission, are prescribed by individual colleges, as indicated in the following list, and in no case is substitution allowed.

Prescribed by Individual Colleges

			Total Prescribed
College of Literature and Arts:			
	List A	5½ units	
	History	1 unit	
	Foreign languages	3 units	9½ units
Colleges of Science and Agriculture:			
	List A	5½ units	
	Science	2 units	7½ units

*A unit is the amount of work represented by the pursuit of one preparatory subject, with the equivalent of five forty-five minute recitations a week, through 36 weeks; or in other words, the work of 180 recitation periods of forty-five minutes each, or the equivalent in laboratory or other practice.

College of Engineering:
List A .....5½ units
Solid and spherical geometry..... ½ unit
Physics .... 1 unit.....7 units
College of Law: Total prescribed
List A .....5½ units
English and American History..... 1 unit.....6½ units
School of Music:
List A .....5½ units
History .... 1 unit
Foreign language ..... 3 units
Music .... 2 units.....11½ units

The remainder of the 15 units must be made up from the subjects in List B. No subject is accepted for an amount less than the minimum mentioned in the list.

List B: Algebra ....1½ units
Astronomy .... ½ unit
Botany ....½ or 1 unit
Chemistry ....½ or 1 unit
Civics ....½ or 1 unit
Commercial geography ..... ½ unit
Drawing ....½ or 1 unit
English composition ..... 1 unit
English literature ..... 1 to 3 units
French .... 1 to 3 units
Geology .... ½ or 1 unit
Geometry, plane ..... 1 unit
Geometry, solid and spherical..... ½ unit
German ....1 to 4 units
Greek ....1 to 3 units
History ....1 to 3 units
Latin ....1 to 4 units
Physics .... 1 unit
Physical geography .....½ or 1 unit
Physiology ....½ or 1 unit
Zoology ....½ or 1 unit

Description of subjects accepted for admission

The amount of work in each of the above subjects which corresponds to the minimum number of credits assigned, is shown by the description of the subjects below:

1. Algebra.—Fundamental operations, factoring, fractions, simple equations, involution, evolution, radicals, quadratic equations and equations reducible to the quadratic form, surds, theory of exponents, and the analysis and solution of problems involving these.

2. Astronomy.—In addition to a knowledge of the descriptive matter in a good text-book, there must be some practical familiarity with the geography of the heavens, with the various celestial motions, and with the positions of the conspicuous naked eye heavenly bodies.

3. Botany.—A familiar acquaintance is required with the general structure of plants, and of the principal organs and their functions, derived to a considerable extent from a study of the objects; also a general knowledge of the main group of plants, and the ability to classify and name the more common species. Laboratory note-books and herbarium collections should be presented.

4. Chemistry.—The instruction must include both text-book and laboratory work. The work should be so arranged that at least one-half of the time shall be given to the laboratory. The course, as it is given in the best high schools in one semester or one year, respectively, will satisfy the requirements of the University for the one-half unit or one unit for admission. The laboratory notes, bearing the teacher's indorsement, must be presented in evidence of the actual laboratory work accomplished. Candidates for admission may be required to demonstrate their ability by laboratory tests.

5. Civics.—Such amount of study on the United States constitution, its history and interpretation, as is indicated by any of the usual high school text-books on civil government, is regarded as sufficient for one term. The work may advantageously be combined with the elements of political economy.

6. Commercial Geography.—The amount and character of the work accepted in this subject is indicated by the scope of such books as Redway's Commercial Geography, Adonis's smaller book on the same subject, the text-book of Gannett, Garrison and Houston, or Trotter's work.

7. Drawing.—Free-hand or mechanical drawing, or both. Drawing-books or plates must be submitted. The number of credits allowed depends on the quantity and quality of the work submitted.

8. English Composition and Rhetoric.—Correct spelling, capitalization, punctuation, paragraphing, idiom, and definition; the

elements of rhetoric. The candidate will be required to write two paragraphs of about one hundred and fifty words each to test his ability to use the English language. This work counts for one unit.

9. English Literature.—(a) Each candidate is expected to have read certain assigned literary masterpieces, and will be subjected to such an examination as will determine whether or not he has done so. The books assigned for the next year are as follows:

The Sir Roger de Coverley Papers; Coleridge's Ancient Mariner; George Eliot's Silas Marner; Lowell's Vision of Sir Launfal; Scott's Ivanhoe; Scott's Lady of the Lake; Shakspere's Merchant of Venice; Shakspere's Macbeth; Tennyson's Gareth and Lynette, Lancelot and Elaine; The Passing of Arthur; Irving's Life of Goldsmith.

(b) In addition to the above the candidate will be required to present a careful, systematic, study, with supplementary reading, of the history of either English or American literature.

(c) The candidate will be examined on the form and substance of certain books in additions to those named under (a). For 1908 the books will be selected from the list below. The examination will be of such a character as to require a minute study of each of the works named, in order to pass it successfully. The list is:

Shakspere's Julius Cæsar; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Burke's Speech on Conciliation with the Colonies; Macaulay's Essays on Addison and Johnson.

The work outlined in (a) (b) (c) counts for two units.

(d) The three units in English composition, rhetoric, and literature, as described above, are required of all students. A fourth unit may be obtained for one full year's additional work in the study of English and American authors.

10. French.—*One year's work.*—The candidate must have a thorough knowledge of elementary grammar and the irregular verbs; must be able to pronounce correctly, and to translate simple spoken French phrases. He must have read some 300 pages of easy prose, including one modern comedy, and must be able to translate ordinary French prose at sight.

Two year's work.—In addition to the above, the candidate must show proficiency in advanced grammar, the essentials of syntax, and elementary composition. The reading of not less than 400 pages of standard authors, including two plays of Molière, is required.

Three years' work.—In addition to what has already been described the candidate must have had further work in composition. He must further have read not less than 500 pages of standard authors, including Molière, La Fontaine, and Hugo. Some acquaintance with modern lyrics is necessary.

11. Geology.—The student must show familiarity with the principles of dynamic and structural geology, and some acquaintance with the facts of historical geology as presented in Scott's Introduction to Geology, Brigham's Text-book of Geology, or an equivalent, together with at least an equal amount of time spent in laboratory and field work.

The laboratory work should follow one or more of the lines indicated below, and note-books should be presented showing the character and amount of work done. *a.* Studies of natural phenomena occurring in the neighborhood, which illustrate the principles of dynamic geology. Each study should include a careful drawing of the object, and a written description of the way in which it was produced. *b.* Studies of well-marked types of crystalline, metamorphic and sedimentary rocks, which will enable the student to recognize each type and state clearly the conditions under which it was formed. *c.* Studies of minerals of economic value, including the characteristics of each, its origin, and the uses to which it is put. *d.* Studies of the types of soil occurring in the neighborhood, including the origin of each and the cause of differences in appearance and fertility.

12. Geometry.—(a) *Plane Geometry.* Special emphasis is placed on the ability to use propositions in the solution of original numerical exercises and of supplementary theorems.

(b) *Solid and Spherical Geometry.* Applications to the solutions of original exercises are emphasized.

13. German.—*One year's work.*—Elementary grammar. Besides the work in grammar, the student should read not less than 150 pages of easy narrative, or descriptive prose.

Two years' work.—In addition to the work outlined under the one year's requirement, the pupil should know the syntax of cases, uses of the subjunctive and infinitive, complex sentence structure, uses of model auxiliaries and of participal constructions. As an additional reading requirement, from 250 to 300 pages should be translated. Prose composition.

Three years' work.—The third year's study should aim to secure an easy reading knowledge of the language. Standard prose of the grade represented by Freytag, Dahn, or Keller, not less than 100 pages, should be read, together with selections from the easier classic dramas. Schiller's Wilhelm Tell, or Jungfrau von Orleans.

Four years' work.—The fourth year of study should be devoted to such works as Gœthe's Iphigenie, Tasso, Hermann und Dorothea, Schiller's die Braut von Messina, some consideration of the chief lyric poets, prose composition, and some practice in theme writing.

The statement of requirements in each subject implies the use of a substantial text-book, some elementary training in the use of reference books, and some instruction in historical geography.

14. GREEK.—To obtain one unit, the exercises in any of the beginning books, and one book of the Anabasis, or its equivalent, must be offered. For two units, two books of the Anabasis and three of Homer, or their equivalents, additional to the above, must be presented, together with an amount of Greek prose composition equal to one exercise a week for one year. For three units the following is required; three additional books of the Iliad, three of the Odyssey, and books VI, VII, VIII of Herodotus, or an equivalent from other authors.

15. HISTORY.—No subjects are definitely prescribed in this department, but the following are recommended as best adapted to the high school program:

a. For a course of one year only, the history of England and of the United States.

b. For a course of two years, the following subjects, or any two of them: The History of Greece and Rome, the History of England, the History of the United States.

c. For a course of three years, one year in each of the three subjects named in (b).

Elementary examination will be offered in the following subjects: (a) The History of England and the United States, (b) the History of Greece and Rome, (c) General European History. *Advanced* examinations may also be taken in any one of the subjects above named, which has not been offered to meet the elementary requirements. The examination in each of these subjects is intended to cover one full year of high school work.

16. LATIN.—*First year's work.*—Such knowledge of inflections

and syntax as is given in any good preparatory Latin book, together with the ability to read simple fables and stories.

Second year's work.—Four books of Cæsar's Gallic War, or its equivalent in Latin of equal difficulty. The ability to write simple Latin based on the text.

Third year's work.—Six orations of Cicero. The ability to write simple Latin based on the text. The simpler historical references and the fundamental facts of Latin syntax.

Fourth year's work.—The scansion of hexameter verse, six books of Virgil, with history and mythology.

17. Physics.—One year's high school work covering the elements of physical science as presented in the best of the current high school text-books of physics. Laboratory practice in elementary quantitative experiments should accompany the text-book work. The candidate's laboratory note-book will be considered as part of the examination.

18. Physical Geography.—The amount and character of the work required may be seen by referring to the texts of Gilbert and Brigham, or Davis; the recitations must be supplemented by at least an equal amount of time devoted to laboratory work. The laboratory exercises should follow one or more lines such as are indicated below. Each student should present a note-book showing what he has done.

(a.) Studies in mathematical geography in which map and scale only are used. These should embrace such topics as length of a degree in longitude in various latitudes; length and breadth of continents, etc., in degrees and miles; relative latitude of places; distances between cities, etc., in degrees and miles; difference in length of parallels and meridians; problems in time; location of time belts, etc.

(b.) Studies of local topographic features which illustrate the various phases of stream work. Each study should include a drawing or topographic map of the object and a full, clear description of the way in which it was formed.

(c.) Studies of glacial deposits as shown in terminal and ground moraines, kames, eskers, etc.; distribution of dark and light colored soils; occurrence of lakes, ponds, gravel beds, clay banks, and water-bearing strips of sand and gravel.

(d.) Studies of stream work as shown in the topographical sheets

which may be obtained from the United States Geological Survey at nominal cost.

(e.) Studies of the form, size, direction and rate of movement of high and low barometer areas, and the relation of these to direction of wind, character of cloud, distribution of heat, and amount of moisture in the air, as shown in the daily weather maps. Later these studies should lead to the making of weather maps from the data funished by the daily papers, and to local prediction of weather changes based on the student's own observations.

(f.) Studies of the climate of various countries compared with our own, the necessary data being derived from such topographic, rainfall, wind, current, and temperature maps as are found in Sydow-Wagner's or Longman's atlases.

19. Physiology.—For one-half unit are required the anatomy, histology, and physiology of the human body and the essentials of hygiene, taught with the aid of charts and models to the extent given in Martin's Human Body (Briefer Course). For more than one-half unit, the course must include practical laboratory work.

20. Zoology.—The instruction must include laboratory work equivalent to four periods a week for a half year, besides the time required for text-book and recitation work. Note-books and drawings must be presented to show the character of work done and the types of animals studied. The drawings are to be made from the objects themselves and not copied from illustrations, and the notes are to be a record of the student's own observation on the animals examined. The amount of equipment and character of surroundings must, of course, determine the nature of the work done and the kind of animals studied, but in any case the student should have at least a fairly accurate knowledge of the external anatomy of each of eight or ten animals distributed among several of the larger divisions of the animal kingdom, and should know something of their life histories and of their more obvious adaptations to environment. It is recommended that special attention be given to such facts as can be gained from a careful study of the living animal. The names of the largest divisions of the animal kingdom with their most important distinguishing characters and illustrative examples, selected, when practicable from familiar forms, ought also to be known.

(a) Admission by Examination

Each candidate for admission by examination is required to pass examinations on the subjects prescribed for the college to which admission is desired, and on additional subjects to make a total of 15 units.

Entrance examinations are on the subjects outlined on pages 24 ff, and are given at the University in accordance with the table following. The scholarship examinations (see page 44) afford an opportunity to pass a part of the entrance examinations before coming to the University.

[1]Program of Examinations, September 16-19, 1908

All persons who wish to enter the University in September, 1908, except those holding certificates of graduation from accredited schools, and scholarship certificates, and those for whom a transfer of all entrance credits from some other college or university has already been approved, must present themselves at the Registrar's office, Library Building, at 9 o'clock a. m., Wednesday, September 16. At that time application for admission will be received, and applicants will be given all necessary directions as to examinations.

The program of examinations is as follows:

Chemistry, ½ or 1 unit	Wednesday	9:00 a. m.
Geology, ½ unit	Wednesday	9:00 a. m.
Astronomy, ½ or 1 unit	Wednesday	11:00 a. m.
History, 1 or 2 units	Wednesday	1:00 p. m.
Physical Geography, ½ or 1 unit	Wednesday	3:30 p. m.
English Literature, 2 units	Thursday	8:00 a. m.
English Composition, 1 unit	Thursday	10:30 a. m.
Latin, first unit, or second unit, or both	Thursday	1:00 p. m.
Physics, 1 unit	Thursday	3:30 p. m.
Algebra, 1½ units	Friday	8:00 a. m.
Civics, ½ or 1 unit	Friday	10:30 a. m.
Geometry, Plane, 1 unit	Friday	1:00 p. m.
Geometry, Solid and Spherical, ½ unit	Friday	2:45 p. m.
Physiology, ½ or 1 unit	Friday	3:30 p. m.
German, first unit, or second unit, or both	Saturday	8:00 a. m.
German, third unit, or fourth unit, or both	Saturday	10:30 a. m.
French, first unit, or second unit, or both	Saturday	8:00 a. m.

[1]The examinations in 1909 will probably be held September 15-18.

French, third unit	Saturday	10:30 a. m.
Commercial Geography, ½ unit	Saturday	10:30 a. m.
Latin, third unit, or fourth unit, or both	Saturday	1:00 p. m.
Botany, ½ or 1 unit	Saturday	1:00 p. m.
Zoology, ½ or 1 unit	Saturday	2:30 p. m.

The time for examination in free hand drawing and in Greek will be arranged with candidates.

(b) Admission by Certificate from an Accredited High School

One wishing to enter the University from an accredited school must furnish the Registrar an official certificate of his preparatory work. If the certificate meets in full the requirements for admission to the college or school in which the course which the candidate wishes to pursue is given he will be granted a permit to enter. If the certificate is deficient, either because the school is not fully accredited or because the candidate has not taken prescribed and other acceptable work in sufficient amount, he may be admitted as a "conditioned" student, *provided* the deficiencies do not exceed two units and are not in work which should precede the prescribed courses of the first semester. The conditioned student must clear off all conditions before registering the second year.

Blank certificates and applications for admission may be had of the Registrar and should be filled and sent to him for approval before the date of registration.

All high schools accredited by the University are in the accompanying list. They are not all accredited for the same amount of work, or all for the same subjects. The University high school visitor upon request inspects high schools not previously accredited, when the request is accompanied with a report of the school which shows that its course of study merits such inspection. The University accredits all work thus found sufficiently well done.

List of Accredited Schools

Correct to January 1, 1908

The following high schools, having all the prescribed units, and enough others to make up the 15 units required, are fully accredited:

School	Superintendent	Principal
Aledo	F. N. Taylor	Ida H. Way
Alton	R. A. Haight	B. C. Richardson
Amboy	T. H. Haney	Maude A. McElroy

School	Superintendent	Principal
Anna	H. C. Fletcher	C. A. Barnhart
Arcola	A. F. Lyle	Ethel Howell
Armington (Hittle Twp.)		G. A. Kramer
Ashland	J. E. Shivers	Petra M. Dahl
Ashton	V. R. McKnight	Eva C. Noelsck
Assumption	Oren A. Barr	Daisy Payne
Atlanta	H. H. Kirkpatrick	Bertha Denning
Auburn	A. W. Bailey	S. Mabel Cooper
Augustana College Academy		G. A. Andreen, Pres.
Aurora (East)	C. M. Bardwell	C. L. Phelps
Aurora (West)	A. V. Greenman	C. P. Briggs
Batavia (East)	L. F. Wentzel	A. E. Taylor
Batavia (West)	J. N. Adee	Eleanor Johnston
Beardstown	J. G. Hutton	Elva Saunders
Belleville	G. H. Busick	H. W. Brua
Belvidere (North)	E. D. Merriman	Flora Fellows
Belvidere (South)	C. H. LeVitt	Myrtle R. Strickler
Bement	S. W. Wright	J. J. Didcoct
Bloomington	J. K. Stableton	William Wallis
Blue Island	J. E. Lemon	J. E. Lemon
Bradley Polytechnic Institute (Peoria)		T. C. Burgess, Director
Burlington, Ia.	F. M. Fultz	W. L. Hanson
Bushnell	W. H. H. Miller	Elizabeth Persinger
Cairo	T. C. Clendenen	W. D. Bannister
Camp Point	S. S. Simpson	Bessie Allen
Canton	G. W. L. Meeker	C. L. Lawyer
Carlinville	J. E. Wooters	Margaret Hubbard
Carlyle	M. N. Todd	H. J. Beckemeyer
Carmi	H. A. O'Brien	H. P. Gilbert
Carrollton	E. A. Doolittle	W. D. McLemore
Carthage	D. H. Wells	Josephine Simmons
Carthage College Academy		C. B. Newcomer
Centralia (Twp. H. S.)		H. W. McDavid
Cerro Gordo	F. T. Ullrich	Nettie G. Jeneks
Champaign	F. D. Haddock	Lottie Switzer
Charleston	DeWitt Elwood	W. R. Spurrier
Chenoa	E. W. Davis	Agnes A. Dillon
Chester	James E. Raibourn	David O. Jones
Chicago		
Austin	E. G. Cooley	Geo. H. Rockwood
Calumet	"	Avon S. Hall
Chicago (South)	"	Chas. I. Parker
Crane, R. T. (M.T.H.)	"	Albert R. Robinson
Curtis	"	Thomas C. Hill
Englewood	"	James E. Armstrong
Hyde Park	"	Hiram B. Loomis
Jefferson	"	Charles A. Cook
Lake	"	Edward F. Stearns
Lake View	"	Benj. F. Buck
McKinley	"	Geo. M. Clayberg
Marshall	"	Louis J. Block

School	Superintendent	Principal
Chicago		
Medill	E. G. Cooley	Edward C. Rosseter
Tuley	"	Franklin P. Fisk
Waller, Robert A.	"	Oliver S. Westcott
Wendell Phillips	"	Spencer R. Smith
Chicago Heights		Edward Sargent
Chillicothe	J. L. Robertson	Katherine Scarry
Chrisman	E. J. Vines	Helen E. Booker
Clinton, Ia.	O. P. Bostwick	Frank E. Millar
Colfax	F. O. Pennington	Laura Dayton
Collinsville	C. H. Dorris	N. P. Dee
Covington, Ind.	H. S. Kaufman	Ira H. McIntire
Danville	L. H. Griffith	Z. M. Smith
Davenport, Ia.	F. L. Smart	G. E. Marshall
Decatur	H. B. Wilson	S. W. Ehrman
DeKalb (Twp. H. S.)		F. M. Giles
Delavan	Carl A. Waldron	Rosa A. Tomm
DesPlaines (Maine Twp.)		C. S. Stewart
Dixon	V. G. Mays	Julius B. Meyer
Dixon (North)	H. V. Baldwin	Jessie F. Wheeler
Dubuque, Ia.	F. T. Oldt	J. A. Anderson
Dundee	E. C. Fisher	Edna Beers
DuQuoin (Township H. S.)		C. W. Houk
Dwight	Anthony Middleton	Goldy Hamilton
Earlville	G. V. Clum	J. E. Clum
E. St. Louis	J. E. Miller	C. L. Manners
Edwardsville	Heywood Coffield	H. Lavinia Moore
Elgin	R. I. White	W. L. Goble
Elgin Academy		G. N. Sleight
Elmwood	T. S. Henry	Margaret McCowan
El Paso (East)	J. H. Smith	Ruby Hildreth
El Paso (West)	E. W. Cresap	Mildred Coburn
Eureka	Alva L. Ragsdale	Louise Gill
Evangelical Proseminar (Elmhurst)		Daniel Irion, Director
Evanston (Twp. H. S.)		W. F. Beardsley
Fairbury	L. F. Fulwiler	Alma Wolfe
Farmer City	C. C. Covey	Effie Tull
Farmington	A. J. Beatty	Florence Grady
Forrest	Geo. N. Bradley	Grace Lewis
Francis W. Parker School (Chicago)		Flora J. Cooke
Freeport	S. E. Raines	L. A. Fulwider
Fulton	H. B. Price	Clara Penstone
Galena	B. L. Birkbeck	Clark C. Emery
Galesburg	W. L. Steele	F. D. Thompson
Galva	F. U. White	Anne E. Edwards
Geneseo	H. B. Fisher	Mrs. Lillian Deming
Geneva	E. A. Ellis	Ethel Bendoin
Genoa	H. F. Stout	Frances Graves
Gibson City	T. A. Luman	Margaret Nicholson
Gilman	F. L. Holch	Mima Maxey
Girard	F. E. Wolfe	Ella Ross

School	Superintendent	Principal
Grand Prairie Seminary (Onarga)		H. H. Frost, Pres.
Granite City	L. P. Frohardt	H. D. Waggoner
Greenup	Donald F. McCash	Olive E. Coffeen
Greenview	R. C. Heitt	Lena O. Dimmitt
Greenville	C. N. Peak	Mamie E. Graff
Harrisburg (Twp. H. S.)		Harry Taylor
Harvard	B. A. Folk	Meroe Conlan
Harvey (Thornton Twp. H. S.)		J. E. Cable
Havana	W. H. D. Meier	Sara E. Pierce
Henry	W. E. King	Marie P. Pfaff
Highland	W. M. Valentin	Ethel Reed
Highland Park (Deerfield Twp. High School)		R. L. Sandwick
Hillsboro	F. D. McKittrick	H. S. Cox
Hinsdale	H. E. Giles	Ora R. Whitmore
Hoopeston	Arthur Verner	J. C. Reeder
Illinois Woman's College (Jacksonville)		Jos. R. Harker, Pres.
Jacksonville	W. A. Furr	H. A. Magill
Jerseyville	J. Pike	E. B. Shafer
J. Sterling Morton (Clyde Twp. High School)		H. V. Church
Joliet (Twp. H. S.)		J. Stanley Brown
Kankakee	F. N. Tracy	L. W. Smith
Kansas	R. N. Perrott	Mabel Bruner
Keithsburg	E. A. Huff	E. E. Straley
Kenilworth (New Trier Twp. H. S.)		F. L. Sims
Kenwood Institute (Chicago)		Mrs. Isabel Buckingham
Keokuk, Ia.	William Aldrich	R. L. Reid
Kewanee	R. G. Jones	O. A. Rawlins
Lacon	C. E. Knapp	D. Irene Turner
La Grange (Lyons Twp. H. S.)		John E. Stout
La Harpe	H. C. Breese	Mary A. Jacobs
Lake Forest Academy		W. M. Lewis
Lanark	O. W. Hoffman	Mabel Schultz
LaSalle-Peru (Twp. H. S.)		T. J. McCormack
Lawrenceville	H. W. Hostettler	J. O. Smith
Lena	L. M. Carpenter	Sue L. Wilson
LeRoy	S. K. McDowell	Florence Bullock
Lewistown	M. N. Beeman	Daisy Miller
Lexington	J. G. Moore	Mildred Sonntag
Libertyville (Twp. H. S.)		R. B. Henley
Lincoln	L. D. Ellis	Elizabeth Roberts
Litchfield	C. E. Richmond	S. A. Ballard
Lockport	G. N. Snapp	Ruth S. Dement
Lovington (Twp. H. S.)		E. S. Jones
McHenry	W. P. Rice	Agnes A. Perry
McLeansboro	W. C. Fairweather	Anna L. Sharpe
Macomb	J. C. Burns	E. J. Myers
Mansfield	O. N. Kiger	Iva Still
Marengo	John S. Collier	S. L. Pitcher
Marion	J. W. Asbury	A. W. Benkert
Maroa	D. Frank Fawcett	Sophia Evans

School	Superintendent	Principal
Marseilles	E. A. Collins	Bess Gill
Marshall (Twp. H. S.)		J. L. Pricer
Martinsville	J. E. Demmer	C. W. Fender
Mason City	Almor Anderson	Mrs. E. A. Naylor
Mattoon	G. P. Randle	J. F. Wiley
Maywood and Melrose Park (Twp. H. S.)		F. M. Crosby
Mendota (East)	G. B. Coffman	Elsie Taylor
Mendota (West)	C. W. Parkinson	Myra J. Howes
Metropolis	F. C. Prowdley	Mrs. Rose Cutting
Minonk	William Hawkes	Mary E. McIlhenny
Moline	B. B. Jackson	E. P. Nutting
Momence	R. E. Selby	P. S. Barto
Monmouth	W. R. Snyder	T. C. McCracken
Morgan Park (Twp. H. S.)		J. H. Heil
Morris	T. M. Birney	J. S. Hunter
Morrison (Twp. H. S.)		D. D. Thomerson
Mt. Carmel	W. S. Booth	Harriett Berninger
Mt. Morris College (Preparatory)		J. E. Miller, Pres.
Mt. Pulaski	P. M. Hoke	Ella E. Worthen
Mt. Sterling	J. H. Ehlers	Ida M. Schaible
Mt. Vernon (Twp. H. S.)		J. M. Dickson
Moweaqua	William Harris	Wade McNutt
Murphysboro (Twp. H. S.)		E. E. Van Cleve
Naperville (Ellsworth)	F. A. Kendall	Rosa Waugh
Neoga	John Scrugham	Vera Turell
Newman	O. C. Bailey	J. F. Hilliard
Newton	Charles A. Bevis	N. N. Stevenson
Nokomis	Henry Buellesfield	Charlotte Holmes
Normal	Herbert Bassett	J. H. Minick
North Park College (Chicago)		A. W. Frederickson
Northwestern Mil. Acad.	Col. H. P. Davidson	Dr. H. H. Rogers
Nunda & Crystal Lake	A. M. Shelton	Minnie Adams
Oak Park & River Forest (Township High School)		J. Calvin Hanna
Oakland	G. W. Sutton	Laura V. Hale
Olney	J. O. Marberry	J. A. Stevenson
Onarga	J. H. Whitten	Jennie McElwain
Oregon	Frank G. Taylor	Herbert Ratcliff
Ottawa (Twp. H. S.)		J. O. Leslie
Pana	C. E. Avis	J. W. D. Butcher
Paris	E. B. Brooks	M. S. Vance
Paw Paw	F. J. Snapp	A. A. Franzke
Paxton	O. J. Bainum	A. F. Trams
Pekin	J. J. Crosby	I. L. Conner
Peoria	Gerard T. Smith	A. W. Beasley
Petersburg	H. E. Waits	Gertrude Stephens
Pittsfield	S. T. Robinson	Nellie A. Moore
Plainfield	L. H. Darling	Mildred Bucks
Polo	W. L. German	Clara L. Buswell
Pontiac (Twp. H. S.)		C. E. DeButts
Princeton (Twp. H. S.)		H. S. Magill, Jr.

School	Superintendent	Principal
Quincy	D. B. Rawlins	C. R. Maxwell
Rantoul	E. H. Miller	Marcia Van Duzer
Riverside	A. F. Ames	T. H. Ziegler
Rochelle	C. E. Joiner	Mary McArdle
Rock Falls	E. O. Phares	Etta Grunewald
Rockford	P. R. Walker	E. U. Graff
Rockford College (Preparatory)		Julia M. Gulliver, Pres.
Rock Island	H. B. Hayden	H. E. Brown
Roodhouse	H. T. White	J. T. Pinkerton
Roseville (Twp. H. S.)		A. C. Booz
Rossville	I. A. Smithers	O. S. Hubbart
Rushville	L. T. Shaw	J. G. Norris
St. Charles	H. W. Monical	Gertrude Neal
St. Louis, Mo.	F. Louis Soldan	W. J. S. Bryan
St. Mary's Academy (Joliet)		Mother M. Ignatia
Sandwich	W. W. Woodbury	Myrtie Thayer
Savanna (Twp. H. S.)		Oscar F. Smith
Sheffield	E. J. Bashore	E. J. Bashore
Shelbyville	A. C. Cohagan	A. M. Cannon
Sheldon	G. W. Courts	C. A. Brothers
Southern Collegiate Inst.		F. B. Hines, Pres.
So. Ill. State Normal, H. S. Dept. (Carbondale)		G. D. Wham
Sparta	S. B. Hood	S. E. Beecher
Springfield	J. H. Collins	L. M. Castle
Sterling (Twp. H. S.)		E. T. Austin
Streator (Twp. H. S.)		R. R. Upton
Sullivan	O. B. Lowe	Laura Hazle
Sycamore	H. A. Bone	Ida H. King
Taylorville (Twp. H. S.)		J. H. Browning
Terre Haute, Ind.	W. P. Morgan	C. J. Waits
Tiskilwa	E. S. Clark	C. A. Miller
Tuscola	Lewis Hoover	G. J. Van Buren
Upper Alton	S. J. Curlee	E. S. Lake
Urbana	A. P. Johnson	L. P. Denoyer
Vandalia	D. B. Fager	Francis Gray
Virginia	R. C. Hiett	Laura Mason
Warren	M. M. Warner	Olivette M. Buser
Washington	E. E. Webster	C. H. Wright
Waterloo	C. M. Gash	Emma Meyer
Watseka	L. W. Haviland	J. H. Cyrus
Waukegan (Twp. H. S.)		W. J. Stebbins
Waverly	Robert D. Hill	Linda E. Hall
Wenona	H. J. Bassler	Mary Christy
West Chicago	L. A. Reisner	Elizabeth Pearce
Western Military Academy (Upper Alton)		A. M. Jackson
Wheaton	J. B. Russell	Ella M. Gregg
White Hall	J. P. Scheid	Isabella Anderson
Whiting, Ind.	J. C. Hall	W. W. Holliday
Wilmington	Lewis A. Mahoney	Ira D. Yaggy
Woodstock	C. E. Douglas	Mrs. Edna B. Campbell

School	Superintendent	Principal
Wyoming	A. B. Unger	Ruth E. Feris
Yorkville	E. C. Thomas	Lepha McCleary

Following are partly accredited schools:

Atwood	Leo P. Baird	Elizabeth Hale
Augusta	S. D. Faris	Arthur Decker
Benton	Roy Wilkins	W. A. Cook
Biggsville (Township School)		L. O. Culp
Bunker Hill	H. M. Anderson	M. H. Malloy
Cambridge	J. M. Markel	Eva H. Gibbs
Casey	L. A. Wallace	W. G. Thompson
Chatsworth	H. L. Kessler	Lillian Toler
Clinton	H. H. Edmunds	J. W. Browning
Cuba	E. F. Nichols	Mrs. A. W. Thomas
Downer's Grove	L. G. Avery	M. Maude Manley
Edinburg	L. S. Heath	Dora L. Nelson
Effingham	T. B. Sullins	Margaret Meneely
Elizabeth	H. C. Storm	Bessie Shackell
Fairfield	James A. Porter	Donald Kirk
Flora	J. A. Davis	W. F. Thrall
Forreston	C. E. Hatchitt	Jane Parmelee
Franklin Grove	F. L. Bennett	Lillian Herstein
Georgetown	O. P. Rees	Johanna Christiansen
Greenfield	H. G. Russell	Helen G. Russell
Griggsville	L. W. Ragland	Roberta S. Amrine
Hebron	Chas. E. Lowman	Evalyn N. Cornelius
Hume	Elmer G. Gingerich	Luella Yenaroine
Knoxville	Oliver Zoll	Mina Van Cleave
Monticello	J. T. Gale	Maude Martin
Nashville	J. C. Chapin	Fred Barber
Odell	W. M. Vaughn	Esther Seeley
Palatine	M. L. Smyser	M. L. Smyser
Plano	W. S. King	M. A. Nichol
Princeville	C. C. Butler	Mrs. W. S. Baker
Robinson	J. G. Slater	L. W. Chatham
Saybrook	C. L. Kyner	C. L. Kyner
St. Alban's School (Knoxville)		Lucien F. Sennett
St. Mary's School (Knoxville)		Dr. C. W. Leffingwell
Toulon Academy		W. F. Nicholson
Vermilion Academy		Chas. L. Coffin
Virden	J. Carl Stine	J. Carl Stine
Washburn	W. R. Bowlin	Florence E. Thompson
Winchester	B. P. Parr	Laura Truscott

(c) Admission by Transfer of Entrance Credits from Other Colleges or Universities

A person who has been admitted to another college or university of recognized standing will be admitted to this University upon presenting a certificate of honorable dismissal from the institution from which he comes and an official statement of the subjects upon which he was admitted to such institution, provided it appears that the subjects are those required here for admission by examination, or real equivalents. The candidate should submit such papers to the Registrar before the time of entrance.

Admission to Advanced Standing

After matriculation, an applicant may secure advanced standing either by examination or by transfer of credits from another college or university.

1. *By examination.*—Advanced standing is granted only by examination, unless the applicant is from a fully accredited school. In such case, credit may be obtained as explained in the next paragraph.

2. *By transfer of Credits.*—Credits from another college or university, or from a fully accredited high school, may be accepted for advanced standing. An applicant for such credit must present a certified record of work done in the institution from which he comes, and except in cases of transfer from high schools, must also present a certificate of honorable dismissal.

Admission as Special Student

Admission as a special student must be secured according to the terms prescribed by the individual colleges, which see. A special student is not matriculated; he must be twenty-one* years of age; he must pay a tuition fee of seven dollars and a half a semester in addition to the regular incidental fee of twelve dollars. No one may enroll as a special student in any college of the University for more than two years except by special permission, application for which must be made through the dean of the college.

REQUIREMENTS FOR GRADUATION

The requirements for graduation will be found in Part II under the various colleges and schools.

*Except in the College of Agriculture or the School of Music.

GRADUATION AND DEGREES

GRADUATION

The candidate for a degree must complete all the subjects prescribed for graduation in his course, and when, in doing this, he does not gain the necessary one hundred and thirty hours of credit he must make up the deficiency by electing other subjects.

The combinations of studies under which a student may graduate are too numerous to describe; they are given to some extent under the separate colleges and schools.

Examinations are held as often as in the judgment of the instructor the necessities of the work require. Examinations are regularly given at the close of each semester, on the work of the semester, in all subjects except those the character of which renders examination unnecessary.

BACHELOR'S DEGREE

The bachelor's degree is conferred upon any student who satisfactorily completes the course of study described under one of the various colleges and schools, and does either the first three years, or the last year, of his work in residence at the University. A candidate for a bachelor's degree must pass in the subjects marked *prescribed* in his chosen course, and must conform to the directions given in connection with that course in regard to electives. In the College of Literature and Arts, of Science, and of Agriculture, credit for 130 hours is required for graduation. In the College of Engineering, in the College of Law, and in the Schools of Music and Library Science the candidate must complete the course of study as laid down. The number of hours required includes, for men, five in military drill and tactics and two in physical training, and for women, three in physical training. Men excused from the military requirements and women who do not take courses in physical training, must elect instead an equivalent number of hours in other subjects.

In all cases in which a thesis is required,[1] the subject must be announced not later than the first Monday in November, and the completed thesis must be submitted to the dean of the proper college by June 1. The work must be done under the direction of the professor in whose department the subject belongs, and must be in the line of the course of study for which a degree is expected. The thesis must be presented upon regulation paper, and is deposited in the library of the University.

1. The degree of Bachelor of Arts is conferred on those who complete a course in the College of Literature and Arts, or certain courses in the College of Science.

2. The degree of Bachelor of Science is conferred on those who complete a course in the College of Engineering or of Agriculture. This degree is conferred on a graduate of the College of Science who completes a course in ceramics and may be conferred on graduates from other courses in this college on recommendation of the Faculty, as announced on pp. 88ff.

3. The degree of Bachelor of Laws is conferred on those who complete the course in the College of Law.

4. The degree of Doctor of Medicine is conferred on those who complete the course in the College of Medicine.

5. The degree of Bachelor of Library Science is conferred on those who complete the course in the School of Library Science.

6. The degree of Bachelor of Music is conferred on those who complete one of the courses in the School of Music.

7. The degree of Graduate in Pharmacy is conferred on those who complete the course in the School of Pharmacy.

8. The degrees of Doctor of Dental Surgery is conferred on those who complete the course in the College of Dentistry.

Special Certificate for High School Teachers

In addition to the usual diploma the University will give to graduates who meet certain requirements in the choice and pursuit of their four years' course, and who give personal promise of success in teaching, a special certificate of preparation for high school teaching.

[1]See requirements for graduation in the various colleges.

UNIVERSITY HONORS

The University gives public official recognition to such students as attain a high grade of scholarship, bv the following system of honors:

Preliminary Honors are assigned on the completion of the sophomore year. The number of persons to whom honors are awarded may not exceed one-tenth of the membership of the sophomore class. The basis of assignment is the scholarship of the student during the freshman and sophomore years. Preliminary Honors afford an opportunity for sophomores to secure recognition for high scholarship without waiting for graduation. A condition or a failure disqualifies a student for receiving these honors.

Final Honors are assigned on graduation. The basis for the assignment is the scholarship of the student during the junior and senior years. Not more than one-tenth of the senior class may receive such honors. Final Honors are given to seniors in recognition of high scholarship, the terms being designed especially to favor students whose preparatory education has been so imperfect as to prevent them from receiving preliminary honors. A condition or a failure received in the junior or the senior year disqualifies a student for receiving Final Honors.

Special Honors are awarded at the close of the senior year. No student may receive such honors who has not completed, before the beginning of his senior year, at least twenty hours' work in the subject, or group of allied subjects, in which the honors are proposed; he must complete thirty hours' work in the same subject or group of allied subjects, by the end of his senior year, do such other work as the professor in charge may assign, and must prepare an acceptable thesis. Special honors are planned for especially brilliant students who prefer to concentrate their efforts upon a special course. A student may be a recipient of both final and special honors. No student is eligible for special honors, who, during the period in which he is a candidate for the same, has received a grade of less than eighty-five per cent. in any subject.

The names of all students receiving honors appear in the University catalog.

CONTESTS AND PRIZES

Military Decorations

Bronze medals typical of the University and its Military Department are awarded by the University to the members of the Infantry Company, Artillery and Signal Detachments which shall score the greatest number of points at the annual competitive drill. The members of the company rifle team making the highest score at gallery target practice are also awarded medals. The medals so awarded become the permanent property of recipients. A complete roster of the winning organizations is published in the University catalog for the following year.

The Hazelton Prize Medal

Captain W. C. Hazelton provided in 1890 a medal, which is awarded, at a competitive drill held near the close of the year, to the best drilled student. Each competitor must have been in attendance at the University at least sixteen weeks of the current college year; must not have had more than four unexcused absences from drill; and must present himself for competition in full uniform.

The award is made for excellence in:

1. Erectness of carriage, military appearance, and neatness.
2. Execution of the school of the soldier, without arms.
3. Manual of arms, with and without numbers.

The name of the successful competitor is published in the University catalog for the following year. He is given a certificate setting forth the facts, and may wear the medal until the 15th day of May following, when he must return it for the next competition.

University Gold Medal

In 1908 the Board of Trustees voted to award a University Gold Medal to the winner of the annual individual competitive military drill, under the following conditions:

1. That the cadet shall have completed one semester's work in Military 1, with a grade of not less than 90%, and three semesters' work in Military 2, with a grade of not less than 95%.

2. That the cadet shall be matriculated in the University of Illinois, and that he shall have obtained an average grade of 85% in his studies other than military, which standing shall be determined by the Council of Administration.

3. That the required credit in Military 1 and Military 2 shall have been obtained at this University.

ORATORICAL CONTESTS

The State University Debating League consists of the state universities of Illinois, Indiana, and Ohio. Under its auspices three debates are held upon the second Friday in March, each university sending out an affirmative and a negative team of three speakers each. At this University the teams are chosen in a series of competitive preliminaries to which all students are eligible.

The Central Debating Circuit of America is an association formed by the universities of Illinois, Iowa, Minnesota, Nebraska, and Wisconsin. It holds a debate at each university on the Friday evening next preceding the opening of the holiday recess. The teams are selected for these debates in the same way as that described above. In 1907-8 Illinois met Wisconsin and Iowa; in 1908-9 the contests will be with Minnesota and Nebraska.

The Hamilton Oratorical Contest is held in Chicago on the anniversary of the birth of Alexander Hamilton. It is under the auspices of the Hamilton Club of that city. The winner receives a testimonial of one hundred dollars; the speaker awarded second places receives fifty dollars. Orations are submitted by representatives of the following institutions: Knox College, Northwestern University, the Universities of Chicago, Illinois, Indiana, Iowa, Michigan, Minnesota, and Wisconsin. The representative of this University is selected in a competitive contest open to all undergraduates except freshmen.

The Illinois College and University Suffrage Contest, endowed by Mrs. Elmina E. Springer, is held under the auspices of the Illinois Equal Suffrage Association. It is open to one representative from any institution of collegiate rank within the state. First and second testimonials of one hundred dollars and fifty dollars, respectively, are awarded. The local contest is open to any student who has been in attendance here at least one full year, and who is a candidate for a Bachelor's or a Master's degree.

A Freshman-Sophomore Debate and an Inter-Society Declamation Contest are held under the management of the Oratorical Association.

Interscholastic Oratorical Prize

A medal of the value of twenty dollars, and two of the value of ten dollars each, are offered annually by the University to the high schools of the state for the best oration delivered in a competitive contest between their representatives. This contest takes place in the spring at the time of the interscholastic athletic meet.

The Bryan Prize

In 1898 Mr. William Jennings Bryan gave to the University two hundred and fifty dollars. From the interest of this sum a prize of twenty-five dollars is offered biennially for the best essay on the science of government. The contest is open to all matriculated undergraduate students. The essays may not be less than three thousand, nor more than six thousand, words in length, and must be left at the President's office not later than the second Wednesday in May. The prize was offered for the first time in 1901. The latest date on which essays may be submitted in 1909 is May 12.

SCHOLARSHIPS

(For information more in detail concerning these scholarships, apply to W. L. Pillsbury, Registrar, Urbana.)

County Scholarships

A law passed by the General Assembly of the State of Illinois at the session of 1905 provides that there may be awarded annually to each county of the state one scholarship. The holder thereof must be at least sixteen years of age, and a resident of the county to which he is accredited. He is entitled to free tuition in other than the preparatory and professional schools of the University.

A competitive examination under the direction of the President of the University is held at the county court house in each county of the state upon the first Saturday of June in each year by the county superintendent of schools upon such branches of study as the President of the University may deem best. Questions for such examinations are furnished to the county superintendents of schools prior to such examinations.

Having passed the examination successfully the candidate must then meet in full the requirements for admission to the freshman class and register the following September.

In case the scholarship in any county is not claimed by a resident of that county the President of the University may fill the same by appointing some candidate, resident of another county, who is eligible therefor.

A student holding a scholarship who shall make it appear to the satisfaction of the President of the University that he requires leave of absence for the purpose of earning funds to defray his expenses while in attendance, may, in the discretion of the President, be granted such a leave of absence, and may be allowed an extension of his scholarship for a period not exceeding six years from the commencement thereof.

The examination is held the first Saturday in June of each year.

Any person, whether a candidate for a scholarship or not, may be examined for admission to the University at this scholarship examination.

General Assembly Scholarships

The same act by which the county scholarships described above were established also provides that each member of the General Assembly may nominate annually one eligible person from his district for a scholarship in the University granting the same privilege as the county scholarships, and to be conferred under the same conditions with regard to examination, entrance requirements, and registration.

Scholarships in Ceramics

The University offers annually to each county in the state, one scholarship, awarded by the Trustees of the University, upon the nomination of the Clay Workers' Association, to applicants who intend to pursue any of the regular courses in ceramics. These scholarships are good for four years and relieve the student from payment of the matriculation and incidental fees.

The applicant must meet *in full, before entering,* the requirements for admission to the freshman class.

In case the scholarship in any county is not claimed by a resident of that county the President of the University may fill the same by appointing some candidate, resident of another county, who is eligible to a vacancy.

Scholarships in Agriculture and Household Science

The University offers every year to each county in the state, except Cook and Lake, and to each of the first ten congressional

districts, one scholarship for prospective students of Agriculture in the College of Agriculture and one for prospective students of Household Science in the College of Literature and Arts, the College of Science, or the College of Agriculture.

Appointments are made by the Trustees of the University to scholarships in Agriculture upon the recommendation of the executive committee of the Illinois Farmers' Institute, and to scholarships in Household Science upon the recommendation of the County Domestic Science Association. Young men under sixteen years of age and young women under eighteen years of age and those who have already attended the University are not eligible. Acceptable candidates, residents of counties or districts for which appointments have been made, may be assigned to counties or districts not yet represented.

The scholarships are good for two years and relieve the holders from the payment of the matriculation fee, $10.00, and the incidental fee, $24.00 a year. The term of a scholarship may be extended four years, if, before it expires, the holder satisfies in full the requirements for admission to the freshman class of the college in which he is enrolled.

Military Scholarships

Students who have gained three hours in class room military instruction and four in drill practice, are eligible for appointment as commissioned officers of the regiment or battery. Those attaining this rank may be awarded special scholarships, good for one year, and equal in value to the University incidental fees for the same length of time.

FELLOWSHIPS

(See under Graduate School.)

BENEFICIARY AID

Edward Snyder Department of Students' Aid

In 1899 Edward Snyder, Professor of the German language and literature, *emeritus,* gave the University the sum of $12,000, to be lent to worthy students to enable them to finish their courses in the University.

This fund is available for junior, senior, and graduate students who need aid to remain and complete their work. The minimum loan made is fifty dollars ($50), and the maximum loan is one hundred and fifty dollars ($150) to a junior, and two hundred dollars ($200) to a senior or graduate student. Notes of hand are taken for the amount of the loans, with 5 per cent interest. The maximum time limit is three years for juniors, and two years from the ensuing thirtieth day of June for seniors and graduates.

Loans are made to matriculated students only who have attained at least the rank of full juniors, who have been in residence at the University at least one year, who are at the time students in residence at the University, and who have declared their intention to graduate.

In recommending loans preference is given to those students who are furthest along in their University work, who have shown themselves most assiduous and successful in their studies, and have shown habitual economy in life.

No distinction is made among students on account of sex or course of study. A loan will not be recommended for any student who is believed to have been financially or morally delinquent in any respect.

Applications for loans must be made in writing and addressed to Vice-President T. J. Burrill, Chairman Loan Fund Committee.

Class of 1895 Loan Fund

This is a fund of $100.00 established by the class of 1895, to be lent to needy and deserving students. According to the conditions of the gift, fifty dollars are to be lent annually, and the benefit of the fund is open only to students who, at the time of application are members of the freshmen class only. No person may receive the benefit of the fund more than four years. The loan bears interest from the time the recipient leaves the University, and is due, one-half in five years, and one-half in six years, after matriculation. The management of the fund is in charge of the Council of Administration.

Application for loans should be made in the same manner as for the Snyder Fund.

ASSOCIATIONS, SOCIETIES, AND CLUBS

Hospital Association

The Hospital Association is an organization of students to provide a fund for hospital care in case of sickness. The members of the association pay a fee of fifty cents each semester and the fund thus raised is used to pay the hospital expenses of members who may need such care. The fund is under the control of a committee of the Council, and during the past five years the association has rendered valuable aid to a considerable number of members. Students are advised to join the association.

Literary Societies

The Adelphic, Ionian, and Philomathean societies for men, and the Alethenai and Illiola for women, meet weekly, on Fridays, throughout term time.

The Christian Associations

The Young Men's and Young Women's Christian Associations have come to occupy a prominent place in the University life. Both are affiliated with the World's Student Christian Federation.

Seven hundred and fifty men now belong to the Young Men's, and two hundred and eighty women to the Young Women's Association. Each association employs for full time a general secretary.

The Association House furnishes free for the use of all students reading room, library, parlors, piano, magazines and papers, correspondence tables, and telephone—a college home.

Religious meetings for men are held on Sunday afternoons; for women on Thursday afternoons; and for both men and women on Monday evenings. There are frequent meetings for the promotion of social intercourse and good fellowship. Courses in systematic Bible study and in modern missions are offered. Within the year eight hundred and fifty men and two hundred and sixty-five women have enrolled in these courses. A most helpful feature of the work is that in the interest of new students at the opening of the college year. Desirable rooms and boarding places are found and posted for reference at the Association House. Representatives of the Association meet the trains, assist students in finding satisfactory locations, and endeavor to make them feel at home. The employment bureau helps to find work.

A copy of the Students' Hand-Book, containing a map of the cities, and giving information about Urbana and Champaign, the University, and the various college organizations and activities, will be sent free to prospective students.

For this Hand-Book, or for further information, address the General Secretary of either Association.

Clubs Auxiliary to Courses of Study

The Agricultural Club meets weekly to discuss topics of theoretical and practical interest to students of agriculture. All students connected with the University are eligible to membership.

The American Institute of Electrical Engineers, Urbana section, consists of local members, associates and "students" of the American Institute of Electrical Engineers who have organized a Branch for the presentation of original papers, and for the discussion of the regular Institute transactions, of which advance copies are received. All interested in electrical engineering are invited to join the Branch, which holds meetings each month at the Electrical Laboratory.

The Architects' Club meets once in two weeks to consider current topics of architectural interest and subjects connected with the study of architectural history. All students pursuing architectural studies are eligible to membership. This club is a member of the Architectural League of America, and contributes to its annual exhibition in the principal cities of the United States.

The Biological Theory Club meets on alternate Monday evenings for papers, addresses, and discussions on subjects in theoretical biology. Its membership is composed of instructors in biological subjects in the Colleges of Science and Agriculture.

The Ceramic Club is composed of the instructors and advanced students of the ceramic courses. It holds weekly meetings for the discussion of abstracts from current literature and of assigned topics.

The Chemical Club meets fortnightly and is open to all students in the chemical department. Its purpose is to foster a general interest in all subjects connected with the field of Chemistry.

A Chemical Society is also organized, membership in which is confined to the instructional force and in the main the topics brought before the society consist of research papers. Seniors and other students working on research topics are invited to the meetings which are held once a month.

The Civil Engineers' Club meets every Friday evening for the discussion of topics of engineering interest, by members of the club or by practicing engineers. Students in civil or municipal and sanitary engineering are eligible to active membership.

The Commercial Club is composed of students in the courses of training for business. It meets on alternate Tuesday evenings to hear addresses from practical business men and to discuss commercial topics.

The English Club is composed of members of the Faculty, and of students who have done especially good work in English. The work of the club is confined to the study of recent writers of fiction and of poetry. The membership is limited to thirty. Meetings are held on the second Monday of each month.

Le Cercle Français includes students who have had at least one year's work in French. The club meets twice a month throughout the year. Its proceedings are conducted in French, the object being to supplement the work of the class room by the practical handling and understanding of the language.

The Geological Journal Club is composed of members of the staff of the Geological Survey and of advanced students and instructors of this department. Weekly meetings are held.

The Electrical Engineering Society is a student organization open to any student interested in electrical work. Its primary object is to bring together all electrical students for the discussion of topics of current interest. The society maintains a technical reading room in the electrical laboratory.

Der Deutsche Verein includes students who have pursued the study of German for two years, and others who have a speaking knowledge of the language. Its proceedings are conducted entirely in German; meetings are held twice a month, and programs of a literary, conversational, and musical nature are presented.

The History Club, consisting of instructors and advanced students, meets monthly.

The Household Science Club, which meets on alternate Wednesdays, is intended to foster general interest in household science. Its meetings are devoted to a discussion of topics relating to that subject.

The Library Club. Any member of the faculty of the Library School or of the library of the University of Illinois, or any student in the Library School may become a member of the Library Club. There are six regular meetings each year, held on the first Wednes-

day of October, November, December, February, March, and April.

The Mathematical Club is open for membership to the instructors and students of mathematics at the University. It meets once in two weeks to discuss questions of interest in pure and applied mathematics.

The Mechanical Engineering Club meets on the second and fourth Friday evenings of each month. All students pursuing mechanical engineering studies are eligible to membership. Papers relating to subjects of interest to members are presented and discussed at each meeting.

The Musical Clubs. These are described under the School of Music.

The Oratorical Association is composed of students interested in public speaking. Membership may be secured upon application and the payment of a yearly fee. The Association manages an entertainment course, including the various debates and other contests, to which members are admitted free of charge.

The Pedagogical Institute. See under School of Education.

The Political Science Club is composed of the members of the corps of instruction in history, economics, and law, and of such students of junior and senior standing as make a record for marked excellence in work in these departments. It meets once a month.

The Scandinavian Club was organized in 1900 for the purpose of bringing together all students having knowledge of at least one of the Scandinavian languages. Meetings are held during the academic year, at which subjects connected with the northern countries, especially with their literatures, are discussed.

The Scribblers' Club was organized in 1906 to afford the members an opportunity to gain facility in writing of an original sort, and ability in criticism. It publishes a college magazine.

The Society of Electrical Engineers has been organized to include students in electrical engineering or those specially interested in the work. They have meetings alternating with those of the Society of Mechanical Engineers.

The Zoological Club is composed of advanced students and instructors in the zoological and physiological departments, together with such other biological instructors and advanced students as are interested in its subjects. Its sessions are devoted to the presentation and discussion of abstracts of recent biological literature and of the results of investigation by the members of the club. It meets weekly in Natural History Hall.

EXPENSES

Fees

All fees shall be paid each semester in advance.

Literary, Technological, Scientific, and Agricultural Departments

Matriculation Fee. Each student not holding a scholarship, upon satisfying the requirements for admission to the University, pays the matriculation fee of.....$10.00

Diploma Fee, payable before graduation, is..... 5.00

Incidental Fee. All students, except those holding scholarships, pay, each semester, an incidental fee of..... 12.00

Tuition Fee. Students "conditioned" on entrance requirements, and "special" students, except special students holding scholarships, pay each semester, a tuition fee of..... 7.50

No deduction is made on account of absence in any course, except in case of protracted illness.

Laboratory Fees and Deposits. Each student working in laboratories, or in the drafting or engineering classes, is required to make a deposit varying from 50 cents to $10.00, to pay for chemicals and apparatus used, and for any breakages or damages.

School of Music

Students who are residents of Illinois, including members of the Graduate School, will, if they are matriculated, pay for instruction in music of college grade the "incidental" fee only $12.00

All other students receiving instruction in music of college grade and all students receiving instruction in music of preparatory grade, pay special fees as follows:

	College.	Preparatory.
Piano, voice, or violin or other stringed instrument, two lessons a week, each semester.....	$32.50	$19.50
Same, one lesson a week	19.50	11.00
Students in harmony, counterpoint, fugue, etc., pay each semester		9.00

For students regularly enrolled in other departments the fees for college music are reduced to $25.00 and $15.00; and for preparatory music to $15.00 and $8.50, each semester.

Lessons upon band instruments are classed as work of preparatory grade, and the preparatory fees are charged.

Use of piano for practice one hour a day, each semester.....$3.00
Additional hours at same rates.

Special students, taking music only, may enter classes in Physical Training (see p. —) on paying each semester.....$7.50

College of Law

Students of the College of Law, upon satisfying the requirements for admission, pay the matriculation fee of..... $10.00
Tuition fee, each semester 25.00
Students conditioned on entrance requirements pay, each semester, an additional fee of 7.50

College of Medicine

Matriculation fee, paid each year .....$ 5.00
General ticket, freshman and sophomore years..... 120.00
General ticket, junior and senior years 140.00
Laboratory deposit, freshman and sophomore years..... 20.00
Laboratory deposit, junior year 5.00
Dissections, per part and County Hospital ticket, each..... 5.00
Maternity hospital fee, senior year..... 15.00
Graduation fee 15.00

College of Dentistry

FIRST YEAR (FRESHMAN)

Matriculation fee
General tuition
Histological laboratory fee
Dissecting fee (one part)
Chemical laboratory fee

$155.00

SECOND YEAR (JUNIOR)

Matriculation fee
General ticket
Histological laboratory fee
Dissecting fee (one part)
Chemical laboratory fee

$155.00

THIRD YEAR (SENIOR)

Matriculation fee.
General ticket.
Final examination fee.

$155.00

School of Pharmacy

Matriculation fee, paid but once .....$ 5.00
Tuition fee, shorter course, each year.....$ 75.00
Tuition fee, longer course, each year..... 125.00
Laboratory deposit, shorter course, each year..... 10.00
Laboratory deposit, longer course, each year..... 15.00
Diploma fee 5.00

Average Annual Expenses

The following are for students (except law and graduate students) attending at Urbana, estimated average annual expenses, *exclusive* of books, clothing, railroad fare, laboratory fees, if any, and small miscellaneous needs:

[1]Semester fees	$ 24.00	to	$ 24.00
Room rent for each student (two in room)	36.00	"	72.00
Table board in boarding houses and clubs	126.00	"	144.00
Washing	18.00	"	24.00
Total	$186.00	to	$264.00
Board and room in private houses, a week	4.50	"	6.00

In addition to the above, freshmen pay a matriculation fee of $10.00, and the men are required to buy a cadet uniform, which costs $15.00. Freshmen engineering students will need to buy a set of drawing instruments at a cost of about $18.00. Other necessary expenses will need to be taken into consideration. Six hundred and twenty-eight scholarships are offered each year. These cover the holder's incidental fees and the matriculation fee. For all the necessary expenses of the year, the average student is not likely to live for less than $300.00, or $350.00.

Board

The University does not furnish board. There are a large number of suitable private places in Urbana and Champaign, within easy walking distance of the Univeristy, where students can obtain table board and rooms. There are several students' clubs at which the cost of meals is about three and a half dollars a week. The Young Men's and Young Women's Christian Associations of the University will aid new students in procuring rooms and boarding places.

CAUTION TO PARENTS—STUDENTS' FUNDS

The Chief Clerk of the Business Office will receive on deposit any funds parents may entrust to him to meet the expenses of their sons and daughters. No greater error can be committed than to send young people from home with large amounts of spending money, and without the authoritative care of some prudent friend. Half the dissipation in colleges springs from excessive allowances of money.

[1]Students of law and music, special students, and pupils of the Academy must make needed changes in the amount given for "semester fees."

PART II

THE COLLEGES AND SCHOOLS

COLLEGES OF LIBERAL ARTS

FACULTY

EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT

EVARTS B. GREENE, PH.D., Dean
College of Literature and Arts,

EDGAR J. TOWNSEND, PH.D., Dean
College of Science.

In Art and Design—

EDWARD JOHN LAKE, B.S., Assistant Professor.
ISABEL JONES, Instructor.
EDWIN VICTOR LAWRENCE, Instructor.
MARY MINERVA WETMORE, Instructor.

In Classics—

HERBERT JEWETT BARTON, A.M., Professor, Latin.
CHARLES MELVILLE MOSS, PH.D., Professor, Greek.
HAMILTON FORD ALLEN, PH.D., Associate.

In Modern Languages—
German

GUSTAF E. KARSTEN, PH.D., Professor.
OTTO EDUARD LESSING, PH.D., Associate Professor.
GEORGE HENRY MEYER, A.M., Assistant Professor.
NEIL CONWELL BROOKS, PH.D., Assistant Professor (on leave).
DAISY LUANA BLAISDELL, A.M., Instructor.
CHARLES GIDEON DAVIS, PH.D., Instructor.
JAMES ALBURN CHILES, A.M., LL.B., Instructor.
CHARLES MARSHALL POOR, PH.D., Instructor.
JOSEF WIEHR, PH.D., Instructor.
WILLIAM CHARLES HILMER, A.M., Assistant.
KATHARINE A. W. LAYTON, A.M., Fellow.
EMMA GERTRUDE JAECK, A.B., Fellow.
MILLICENT STEBBINS, A.B., Fellow.

Hans Jacob Hoff, A.B., Fellow.
Carl Henninger, A.B., Scholar.
Paul Eberhard Werckshagen, Scholar (Scheredt Gymnasium).

Romance Languages

Thomas Edward Oliver, Ph.D., Professor.
David Hobart Carnahan, Ph.D., Associate Professor.
Arthur Romeyn Seymour, Ph.D., Asociate.
Edward Joseph Fortier, A.B., Associate.
Florence Nightingale Jones, Ph.D., Instructor.
José Maria Homs, Assistant.
Ethel Clara Forbes, A.B., Scholar.
Mary Elizabeth H. Owen, A.B., Scholar.

In English—

Daniel Kilham Dodge, Ph.D., Professor.
Thomas Arkle Clark, B.L., Professor.
Chester Noyes Greenough, Ph.D., Professor.
Edward Fulton, Ph.D., Associate Professor.
Edward Chauncey Baldwin, Ph.D., Assistant Professor.
Harry G Paul, A.M., Assistant Professor (on leave).
Frank William Scott, A.M., Associate.
Thacher Howland Guild, A.M., Associate.
Ernest Milton Halliday, A.B., LL.B., Associate.
Harrie Stuart Vedder Jones, Ph.D., Associate.
Stuart Pratt Sherman, Ph.D., Associate.
Martha Jackson Kyle, A.M., Instructor.
Arthur Llewellyn Eno, A.M., Instructor.
Percy Hazen Houston, A.M., Instructor.
Walter Clark Phillips, A.M., Instructor.
Stephen Faunce Sears, A.M., Instructor.
Jacob Zeitlin, Ph.D., Instructor.
Bernice Margaret Bradford, A.M., Assistant.
Mrs. Mary E. Fawcett, A.B., Assistant.
Sada Annis Harbarger, A.B., Assistant.
Carl Clinton VanDoren, A.B., Assistant.
Adeline Miriam Jenney, A.B., Fellow.

In History—

Evarts Boutell Greene, Ph.D., Professor.
Guy Stanton Ford, Ph.D., Professor.
Henry Lawrence Schoolcraft, Ph.D., Assistant Professor (on leave).

Clarence Walworth Alvord, A.B., Assistant Professor.
Laurence Marcellus Larson, Ph.D., Associate.
Louis John Paetow, Ph.D., Associate.
Clarence Edwin Carter, A.M., Fellow.
May Allinson, A.M., Fellow.

In Economics—

David Kinley, Ph.D., Professor.
Maurice Henry Robinson, Ph.D., Professor, Industry and Transportation.
George Mygatt Fisk, Ph.D., Professor, Commerce.
Ernest Ritson Dewsnup, M.A., Professor, Railway Administration.
Nathan Austin Weston, Ph.D., Assistant Professor.
John Giffin Thompson, Ph.D., Instructor.
Howard Gray Brownson, A.M., Fellow.
Carl John Strand, A.B., Scholar.

In Political Science—

James Wilford Garner, Ph.D., Professor.
Selden Gale Lowrie, A.B., Scholar.
Blaine Free Moore, A.B., Scholar.

In Sociology—

Edward Carey Hayes, Ph.D., Professor.

In Philosophy—

Arthur Hill Daniels, Ph.D., Professor.
Guy Allan Tawney, Ph.D., Assistant Professor.

In Psychology—

Stephen Sheldon Colvin, Ph.D., Professor.
John Wallace Baird, Ph.D., Assistant Professor.
Fred Kuhlmann, Ph.D., Instructor.

In Education—

Stephen Sheldon Colvin, Ph.D., Acting Professor.
Edwin Lee Norton, Ph.D., Instructor.

In Astronomy—

Joel Stebbins, Ph.D., Assistant Professor.
Frank Walker Reed, Ph.D., Instructor.

In Mathematics—

Samuel Walker Shattuck, C.E., Professor.
Edgar Jerome Townsend, Ph.D., Professor.
George Abram Miller, Ph.D., Professor.
Ernst Julius Wilczynski, Ph.D., Associate Professor.
Henry Lewis Rietz, Ph.D., Assistant Professor.
Charles Nelson Haskins, Ph.D., Assistant Professor.
Charles Herschel Sisam, Ph.D., Associate.
Ernest William Ponzer, M.S., Instructor.
Marian Ballantyne White, A.M., Instructor.
Lewis Irving Neikirk, Ph.D., Instructor.
Arthur Robert Crathorne, Ph.D., Instructor.
Robert Lacey Börger, Ph.D., Instructor.
Clyde Wilbur Emmons, A.B., Assistant.
Hugh Pratt Kean, A.B., Assistant.
George Ernest Carscallen, A.B., Assistant.
William Wells Denton, A.B., Assistant.
Robert Maurice Mathews, A.B., Assistant.
Chester Forsyth, A.B., Assistant.
Elizabeth Ruth Bennett, A.B., Scholar.
Luther Ewing Petty, A.B., Scholar.
Harry Cleveland Morrison, A.B., Scholar.

In Physics—

Albert Pruden Carman, A.M., D. Sc. Professor.
Charles Tobias Knipp, Ph.D., Assistant Professor.
Floyd Rowe Watson, Ph.D., Assistant Professor.
Elmer Howard Williams, A.M., Instructor.
Waldemar Matthaeus Stempel, A.M., Instructor.
William Warren Stifler, A.B., Assistant.
Carl A. Hellman, B.S., Assistant.
Otto Stuhlmann, Jr., A.B., Assistant.
E. B. Stephenson, A.M., Fellow.
L. S. Dancey, A.B., Scholar.

In Chemistry—

William Albert Noyes, Ph.D., Professor and Director.
Samuel Wilson Parr, M.S., Professor.
Harry Sands Grindley, Sc. D., Professor.
Edward Bartow, Ph.D., Professor.
Azariah Thomas Lincoln, Ph.D., Assistant Professor.
Richard Sidney Curtiss, Ph.D., Assistant Professor.

Philip Bovier Hawk, Ph.D., Assistant Professor.
Willis B. Holmes, Ph.D., Associate.
Clarence William Balke, Ph.D., Associate.
Samuel C Clark, B.S., Instructor.
George McPhail Smith, Ph.D., Instructor.
Helen Isham, Ph.D., Instructor.
Clarence George Derick, B.S., Lecturer and Research Assistant
Alice Virginia Flather, Assistant.
Grant Train Davis, A.B., Assistant.
Henry Albright Mattill, A.M., Assistant.
Joseph Evans Dunipace, A.M., Assistant.
Lewis Isaac Birdsall, A.B., Assistant.
Thomas Reuben Ernest, A.B., Assistant.
Earl V. Manuel, B.S., Assistant.
Jerome Stanley Rogers, B.S., Assistant.
John Tilden Nuttall, B.S., Assistant.
Rurick Creegan Roark, A.B., Assistant.
Warren Hamilton Leverett, M.S., Assistant.
Alfred W. Homburger, A.B., Fellow.
Charles Kenworthy Francis, Ph.B., Fellow.

In Geology—

Charles Wesley Rolfe, M.S., Professor.
William Shirley Bayley, Ph.D., Associate Professor.
Thomas Edmund Savage, A.M., Assistant Professor.
Rufus Mathew Bagg, Ph.D., Instructor.
Carl F. Knirk, Assistant.

In Ceramics—

Charles Wesley Rolfe, M.S., Director.
Albert Victor Bleininger, B.S., Assistant Professor.
Ray Thomas Stull, E.M., Instructor.
Herford Hope, Assistant.

In Botany—

Thomas Jonatahan Burrill, Ph.D., LL.D., Professor.
Charles Frederick Hottes, Ph.D., Assistant Professor.
Henry Allan Gleason, Ph.D., Instructor.
Charles Francis Briscoe, A.M., Instructor.
Ruby Thorne DeMotte, A.M., Assistant.
Adam Albert Hummel, B.S., Assistant.
Ernest Reynolds, A.M., Fellow.
Rosa Drew, A.B., Scholar.

In Zoology—

Stephen Alfred Forbes, Ph.D., LL.D., Professor.
Frank Smith, A.M., Associate Professor.
Amos William Peters, Ph.D., Associate.
John Hancock McClellan, Ph.D., Associate.
Frederick Walton Carpenter, Ph.D., Instructor.

In Physiology—

George Theophilus Kemp, M.D., Ph.D., Professor.
Otis Orion Stanley, M.S., M.D., Instructor.
M. A. Lane, B.S., Fellow.

In Entomology—

Justus Watson Folsom, Sc. D., Associate.

In Household Science—

Isabel Bevier, Ph.M., Professor.
Susannah Usher, B.S., Assistant Professor.
Charlotte Mitchell Gibbs, A.B., Instructor.
Jessie Eleaine Morrow, B.S., Assistant.
Helena Maude Pincomb, B.S., Assistant.

COLLEGE OF LITERATURE AND ARTS

The purpose of the College of Literature and Arts is to secure for its students a liberal education including both the humanities and the sciences. Students who complete the course receive the degree of Bachelor of Arts. This College is especially adapted to the needs of the following classes of students:

1. Those who wish to pursue a somewhat general course in the arts and sciences as a basis for later professional or technical studies. It will ordinarily be possible for a good student to arrange his work in such a way as to secure, within six years, a professional or technical degree in addition to that in arts.

2. Students who desire to prepare themselves for teaching. Under the modified elective system a student may specialize to a considerable extent in the particular subject which he wishes to teach and may also find time for courses in education and related subjects which are of interest to teachers generally. Such students should, however, as a rule continue their preparation in the Graduate School.

3. Students who find it necessary to devote a considerable part of their undergraduate course to specific preparation for some particular calling other than teaching. Such vocational training may be secured at present in the Household Science Course and the Courses of Training for Business (including Journalism). Students regularly registered for these courses are subject to the general requirements of the College, but must meet also certain special requirements described below.

ADMISSION

1. Applicants for admission to the freshman class in the College of Literature and Arts must be at least sixteen years of age. Such admission may be obtained on certification from a fully accredited high school, by examination, or on certification from some other college.

2. Every applicant for admission to the freshman class must offer fifteen units of high school work as defined on page 22. The following units are prescribed in this College and no substitutes are accepted.

Algebra	1½ units
English Composition	1 unit
English Literature	2 units
Geometry, plane	1 unit
History	1 unit
Foreign Language	3 units

The remainder of the 15 units must be made up from the elective subjects listed on page 23, in the amounts indicated. No subject will be accepted if it is offered in an amount less than the minimum indicated in the table. For full description of subjects accepted for admission, program of examinations, and other details, see pages 23 ff.

Special Students

Persons over twenty-one years of age, *not candidates for a degree,* may be admitted to classes in the College of Literature and Arts for which they are prepared, on special application to the Dean. Every person desiring admission as a special student in this College must present a written application, accompanied by official certificates, indicating the character and extent of his preparatory work, and showing honorable dismissal from the school last attended. It

is the policy of this College to admit as special students only a select group of mature and serious persons who, though unable to meet the formal requirements for entrance, are substantially prepared for work of college grade within their chosen fields. Such students are not matriculated; they pay a tuition fee of seven dollars and a half a semester, in addition to the regular incidental fee of twelve dollars. No one may enroll in the University as a special student for more than two years, except upon the recommendation of the faculty of the college in which he is enrolled, and the approval of the Council of Administration.

Admission to Advanced Standing

After satisfying the entrance requirements for admission to the University, in some one of the ways described, and after matriculating, the applicant for advanced standing may secure advanced standing either by examination or by transfer of credits from some other college or university. For further details relating to transfer of credits and admission to advanced standing see page 38.

REQUIREMENTS FOR GRADUATION

The only degree given on graduation from this college is that of Bachelor of Arts.

In order to graduate from the University in the College of Literature and Arts, the student must secure credit for 130 *hours** of study, including therein the prescribed military and physical training. Every student must take work aggregating at least eight hours of credit in each of the following groups of subjects, according to the conditions described below. The groups are:

I. English language and literature, including English and rhetoric.

II. Ancient and modern languages and literatures, including Greek, Latin, Germanic, and Romance languages.

III. The social sciences, including history, economics, political science and sociology.

IV. Mathematics and philosophy, including mathematics, education, philosophy, and psychology.

V. Science, including astronomy, botany, chemistry, geology, physiology, physics, and zoology.

*An hour is one class period a week for one semester, each class period presupposing two hours' preparation by the student, or the equivalent in laboratory, shop, or drawing room.

Conditions under which students must make their choice:

1. In his freshman year each student must select his course of study from at least three of the five groups mentioned above, and must include in his choice six hours of rhetoric, and eight hours of some one foreign language.

2. In Group II, no credit is given for a part of the work of the beginning year of any foreign language.

3. In Group IV, a student who elects mathematics must take at least five hours of it. If a student does not elect mathematics, his election in this group must include work in at least two of the other departments of the group. That is, if he does not take mathematics, he must take either philosophy and psychology, or philosophy and education, or education and psychology. With the exception of mathematics, no subject of this group is open to freshmen.

4. No credit is granted in any subject unless the student pursues it for the full time required in the shortest course offered in that subject. For example, if the student elects a course which yields two hours of credit for one semester, he must stay in the class during the semester in order to get any credit at all.

5. Every student must secure at least 24 hours of credit in some one subject to be selected by him from the list of major subjects (see page 67). This subject shall be called his major.

6. Not more than 40 hours in any one subject may be counted for graduation, excepting when the student is writing a thesis. In this case he may count, in addition to the 40 hours, the hours of the seminar course in which he does his thesis work. In the department of English a student may take 40 hours in addition to Rhetoric 1.

7. Students who are candidates for special honors must write theses. Students not candidates for special honors may also write theses, on the approval of the head of the department in which they are doing their major work. Such thesis work will ordinarily be done in connection with the department seminaries and is especially recommended to all students who wish to teach or to engage in graduate work.

8. Students who hold scholarships in household science must make this subject their major. They must elect each semester at least four hours in household science, or in subjects required for admission to the household science courses. In their freshman year household science students must elect the following:

First Year

I. Physical Training 7, Physiology 6, Rhetoric 1, Foreign Language, Chemistry 1, Household Science 2.

II. Physical Training 7, Rhetoric 1, Foreign Language, Household Science 1, Chemistry 2 and 3.

They must then elect in regular course and finish by the end of the junior year, Botany 5, Chemistry 13a, 9, and 9c, and an additional five hours in botany or zoology. In order to graduate, household science students must also secure credit for Art and Design 1, Architecture 41 (Color Problems), Architecture 29a and 29b (History of Architecture), and Economics 1.

Students in household science must also satisfy the requirements for graduation in the College of Literature and Arts, in so far as these are not covered by the courses above mentioned.

9. Students in the business courses must make economics their major subject. They must supplement the economics with the necessary work in science, materials of commerce, mechanical technology, language, and law, and should follow closely the outlines of the various courses given in full in the special circular on *Courses of Training for Business.*

ELECTIVES

A student may select his studies from as wide a range of subjects as he pleases, restricted only by the requirements that he shall take the minimum amount of work in each of the groups mentioned on page 64, and secure at least 24 hours in some one subject. The special requirements for a major in English or in modern languages are indicated below.

The departments in which major work may be done are listed as major electives on page 67. If the student receives less than 24 hours' credit in one of these subjects, it is credited to him as minor work, as is also any subject not there listed, regardless of the time spent on it.

The elective minor courses open to the students of the College include subjects offered in the other colleges and schools of the University. The natural sciences especially are so important a part of a liberal education that every student of the College is earnestly urged to extend his study of them as far as may be.

Certain courses in the College of Engineering, in the College of Agriculture, in the School of Library Science, and in the College of Law, may also be counted for credit in the College of Literature and Arts. These are more particularly mentioned under Minor Electives, below.

Major Electives

The following subjects may be elected as majors in the College of Literature and Arts:

Economics
Education
English (including English Literature and Rhetoric)[1]
French[2]
German[3]
Greek
History
Household Science
Latin
Mathematics
Philosophy
Political Science
Psychology
Sociology

Minor Electives

The credits necessary for graduation, additional to those obtained in the prescribed subjects and the chosen major electives, may be secured from any subjects offered in the University whose election is approved by the Dean of the College. Among the subjects which may be thus chosen are several offered in the College of Literature and Arts. These are as follows:

Art and Design:[1] Of this subject 20 hours, but no more, may be counted for the degree of bachelor of arts.

Comparative Literature and Philology.

Italian and Spanish.

The following subjects in other colleges and schools of the University may also be taken as minors:

Architecture: Domestic Architecture (Arch. 27), and History of Architecture (Arch. 29).

Library Science:[2] After the year 1907-08 the following courses only will be counted for credit in the College of Literature and Arts: History of Libraries (Lib. 7); Book-making (Lib. 9); Gen-

[1]After the year 1907-08, a major in English must include 24 hours in addition to English 1 and Rhetoric 1. Of these 24 hours at least 8 must be in English literature and at least 4 in rhetoric.
[2]A major in French must include 24 hours in addition to French 1.
[3]A major in German must include 24 hours in addition to German 1 and 3.

eral Reference (Lib. 12); Public Documents (Lib. 13); Library Extension (Lib. 14). The total credit allowed in library science will not ordinarily exceed 14 hours. The course in General Reference (Lib. 12) is of special value to students in the College of Literature and Arts.

Music: History of Music (Mus. 1).

Physical Training: Credit in physical training may be counted for the degree of A.B. for an amount not exceeding five semester hours.

Certain other courses offered in the Colleges of Engineering and Agriculture may also be taken, subject to the approval of the Dean and the instructors concerned.

COURSE OF INSTRUCTION

First Year

Fifteen to eighteen hours a week, including rhetoric, and some foreign language, must be chosen each semester. Every freshman student must include in his course of study at least three of the five groups mentioned on page 64.

Military science and tactics are required of all male students. Drill extends through the freshman and sophomore years, and tactics through the second semester of the freshman year. This requirement applies also to first year special students.

Physical training is required of all freshmen, men and women, two hours for men and three hours for women.

The following subjects are open to freshmen:

First Semester—

Art and Design 1.

English Literature and Rhetoric: English 1; Rhetoric 1, 7.

Foreign Language: French 1 or 2; German 1 or 4; Greek 1 (for those who have not before studied Greek); Greek 5 (for those offering entrance units in Greek); Italian 1; Latin 1 (for those offering 3 units for entrance); Latin 2 (for those offering 4 units for entrance); Spanish 1.

History and Political Science: History 1 and 11; Economics 7 and 26.

[1]Special students may elect any amount of the subject.
[2]No library science, except course 12 may be elected before senior year.

Household Science 2.

Library Science 12.

Mathematics 1 and 3, or 2 and 4.

Science: Astronomy 1; Botany 11; Chemistry 1; Entomology 1; Geology 3; Physical Geography (Geology 8); Zoology 10 and 11.

Military 2.

Physical Training 1 and 3 for men; 7 and 9 (Physiol. 6) for women.

Second Semester—

Art and Design 1, 2.

English Literature and Rhetoric: English 23 and 27; Rhetoric 1, 7, 11.

Foreign Language: French 1 or 2; German 3, 5 or 6; Greek 2; (after Greek 1); Greek 6 (after Greek 5); Italian 1; Latin 1 and 2; Spanish 1; Italian 1.

History and Political Science: History 1 and 11; Economics 22 and 26.

Household Science 1, 7.

Library Science 12.

Mathematics 6.

Science: Astronomy 4; Chemistry 2 and 3; Entomology 1; Geology 3; Physical Geography (Geol. 8); Zoology 10.

Military 1 and 2.

Physical Training: 1 and 3 for men; 7 for women.

The work of the remaining years is elective, but the elections must include the necessary number of hours from each group as specified on pages 64ff.

TRAINING FOR BUSINESS

Courses in economics, commerce, and industry are offered in combination with courses in language, law, science, and mechanical technology, with the aim of providing a university training for business life. The combined courses are designed to give the student a knowledge of the general principles that underlie all lines of business, with special training in the work of some particular calling.

ARRANGEMENT OF COURSES

The subjects of study are so arranged as to furnish training for (1) general business, (2) commerce and the consular service, (3) banking, (4) railway administration, (5) insurance, (6) municipal administration, (7) journalistic work.

The work of the class-room is supplemented with lectures by practical specialists, and with visits of inspection to industrial and mercantile establishments.

The course in railway administration has been considerably extended and it is now possible for a student to take a four years' course of study in this subject. This is one of the courses in the new School of Railway Engineering and Administration, and replaces the course hitherto given in transportation among the courses of training for business.

The outlines for the General Business Course and those of the courses in Railway Administration are given below. *A detailed description of the other courses, together with a full account of the library and other facilities for the work is given in a separate circular, which may be had on application to the Registrar. A special circular on courses in preparation for journalistic work is also issued.*

General Business Course

FIRST YEAR

This course is intended for students who wish to get a general knowledge of modern business organization and methods and their relation to the public welfare without specializing in the details of any particular business.

Every student must take the subjects in italics. He must elect, in addition, enough courses to give him 15-18 classes per week from the subjects not in italics, *or from other subjects offered in the University.* Some subjects not printed in italics are prescribed for students in particular lines of work.

FIRST YEAR

1. *Commercial Geography (Econ. 26); English Economic History (Econ. 7)*; *Foreign Language;* Algebra, Trigonometry (Math. 2, 4); *Military;* Physical Geography (Geol. 8); *Physical Training;* Hist. of England (Hist. 11); *Rhetoric (Rhet. 1).*

2. Analyt. Geom., (Math. 6); History of England (Hist. 11); *Economic History of the United States (Econ. 22); Foreign Lan-*

guage; Military; Physical Geography (Geol. 8); *Physical Training; Rhetoric* (*Rhet. 1*).

SECOND YEAR

1. American Gov't. (Pol. Sci. 1); *Business Writing* (*Rhet. 10*); Calculus (Math. 8 a); Foreign Language continued; History of the U. S. (Hist. 3); *Military; Principles of Economics* (*Econ. 1*).

2. *Business Writing* (*Rhet. 10*); Federal and State Administration (Pol. Sci. 5); Foreign Language continued; History of the U. S. (Hist. 3); *Military; Money and Banking* (*Econ. 3*); Public Finance (Econ. 5); Statistics (Math. 26).

THIRD YEAR

1. *Accounting* (*Econ. 34*); Corporation Management and Finance (Econ. 10); Domestic Commerce and Commercial Politics (Econ 28) or History of Commerce (Econ. 27); *Ethics* (*Phil. 9*); Foreign Language continued; Financial History of the United States (Econ. 4).

2. *Auditing* (*Econ. 34a*); Foreign Commerce and Commercial Politics (Econ. 29) or History of the Commercial Policy of the United States (Econ. 30); Foreign Language continued; Industrial Consolidations (Econ. 11).

FOURTH YEAR

1. *Commercial Law* (*Law B*); Domestic and Commercial Politics (Econ. 28) or History of Commerce (Econ. 27); *Hist. of Econ. Thought* (*Econ. 20*) *or Econ. Theory* (*Econ. 101*); Labor Problem (Econ. 12); *Seminary* (*Econ. 18*).

2. *Commercial Law* (*Law B*); Foreign Commerce and Commercial Politics (Econ. 29) or History of the Commercial Policy of the United States (Econ. 30). Generation and Transmission of Power (M. E. 31); or Machinery and Manufacturing (M. E. 30); *Hist. of Econ. Thought* (*Econ. 20*) *or Econ. Theory* (*Econ. 101*); *Seminary* (*Econ. 18*).

COURSE IN BANKING

The work of the first and second years is the same as in the General Business course.

THIRD YEAR

1. *Accounting* (*Econ. 34*); *Corporation Management and Finance* (*Econ. 10*); English Literature or Foreign Language con-

tinued; *Financial History of the United States* (*Econ.* 4); History of Commerce, or Domestic Commerce (Econ. 27 or 28); *Practical Banking* (*Econ.* 9).

2. *Auditing* (*Econ. 34a*); Foreign Commerce, or Commercial Policy of the United States (Econ. 29 or 30); Industrial Consolidations (Econ. 11); *The Money Market* (*Econ. 8*).

FOURTH YEAR

1. *Commercial Law* (*Law B*); Domestic Commerce and Commercial politics, or History of Commerce (Econ. 28 or 27); *History of Econ. Thought* (*Econ. 20*) *or Econ. Theory* (*Econ. 101*); *Seminary* (*Econ. 18*).

2. *Commercial Law* (*Law B*); Foreign Commerce and Commercial Politics or History of the Commercial Policy of the United States (Econ. 30 or 29); *History of Econ. Thought* (*Econ. 20*) *or Econ. Theory* (*Econ. 101*); *Seminary* (*Econ. 18*); Statistics (Econ. 23, 24).

GRADUATE YEAR

1. Consular and Diplomatic Service (Econ. 35); Domestic and Foreign Markets of the United States (Econ. 32); History of the Commercial Relations of the United States (Econ. 31); Taxation (Econ. 6); Electives; Seminary (Research in Banking Organizations and Management).

Courses in Railway Administration

There are two distinct courses offered under this head, one emphasizing those subjects which are of most value to the student interested in the accounting and traffic aspects of railway work, the other laying stress upon the transportation service, properly so called, and intended to prepare men directly for the transportation departments of our railways.

Traffic and Accounting

FIRST YEAR

1. Commercial Geography (Econ. 26); Mathematics 2 and 4; Rhetoric 1; German or French; Military; Physical Training.

2. Economic History of the U. S. (Econ. 22); Mathematics 6; Rhetoric 1; German or French; Military; Physical Training.

SECOND YEAR

1. Principles of Economics (Econ. 1); Mathematics 8a; Business Writing (Rhet. 10); Physics 1 and 3; Military.

2. Money and Banking (Econ. 3); Statistics (Math. 26); Business Writing (Rhet. 10); Physics 1 and 3; Railway Organization (Econ. 41); Military.

THIRD YEAR

1. Corporation Management (Econ. 10); Financial History of the U. S. (Econ. 4); Corporation Accounting (Econ. 34); Railway Administration (Econ. 42); Traffic Administration (Econ. 43); Political Science 1.

2. Industrial Consolidations (Econ. 11); Money Market (Econ. 8); Auditing (Econ. 34a); Railway Transportation (Econ. 44); Railway Literature (Econ. 46); Public Finance (Econ. 5); Labor Problem (Econ. 12).

FOURTH YEAR

1. Railway Literature cont. course (Econ. 46); Railway Practice (Econ. 45); Seminary in Railway Administration and Management (Econ. 103); Railway Accounting; Domestic and Foreign Markets (Econ. 32); Physical Geography (Geol. 8); Law B.

2. Foreign Railway Systems (Econ. 47); Seminary in Railway Administration and Management (Econ. 103); Railway Statistics; Domestic and Foreign Markets (Econ. 32); Physical Geography (Geol. 8); Law B.

Transportation

FIRST YEAR

1. Mathematics (2 and 4); General Engineering Drawing 1; Rhetoric 1; German 1; Military 2; Physical Training 1 and 3.

2. Mathematics (6); Shop Practice (M. E. 1); Rhetoric 1; German 3; Military 1 and 2; Physical Training 1 and 3.

SECOND YEAR

1. Mathematics (7); Chemistry 1 (3); Physics 1 and 3; Principles of Economics (Econ. 1); Military.

2. Mathematics (9); Physics 1 and 3; The Labor Problem (Econ. 12); Railway Organization and History (Econ. 41); Me-

chanical Engineering 13; Analytical Mechanics (T. & A. M. 7); Military.

THIRD YEAR

1. Corporation Management and Finance (Econ. 10); Railway Administration (Econ. 42); Traffic Administration (Econ. 43); Resistance of Materials (T. & A. M. 8 and 9); Electrical Engineering 16.

2. Railway Transportation (Econ. 44); Railway Literature (Econ. 46); Railway Auditing Methods; Steam Engines (M. E. 11); Graphic Statics (C. E. 20); Electrical Engineering 1; Surveying (C. E. 10); Electives 2 to 5 hours.

FOURTH YEAR

1. Railway Practice (Econ. 45); Railway Literature (Econ. 46); Seminary in Railway Administration (Econ. 103); Electrical Engineering 21; Locomotive Engines (Ry. Eng. 1); Locomotive Road Tests (Ry. Eng. 4); Bridge Analysis (C. E. 12); Railroad Engineering; Engineering Materials (T. & A. M. 6).

2. Foreign Railway Systems (Econ. 47); Seminary in Railway Administration (Econ. 103); Traction (Ry. Eng. 61); Railway Yards and Terminals (Ry. Eng. 31); Dynamometer Car Tests (Ry. Eng. 8); Railway Structures (Ry. Eng. 32); Railway Track Maintenance; Electives 5-8.

For further information relating to the School of Railway Engineering and Administration, see pages 103 ff.

LEGAL STUDY AND COLLEGE WORK

By the proper selection of his studies it is possible for a prospective law student to take both his degree in arts and his degree in law in six years, and a strong student may be able to take his bachelor's degree in arts at the close of his first year in the College of Law. The following courses in the College of Law, not exceeding a total of 17 hours, may be counted for the degree of bachelor of arts: Law 1 (Contracts); Law 2 (Torts); Law 3 (Real Property); Law 24 (Municipal Corporations). Some of these courses, not exceeding 9 hours, may, by special permission of the Dean, be taken in the junior year. If the student is also a candidate for the degree of LL.B., he should in his fourth year register in the College of Law and pay the usual fee of that college.

Students are not permitted to take this law work for credit toward the arts' degree until their junior year.

A fee of five dollars is charged for every law subject, taken by students who do not pay the regular law school fee.

SPECIAL STUDENTS OF ART AND DESIGN

No student of art, upon entering a course of professional study, is able to determine the line in which he will later specialize. Accordingly, students of art, upon entering the University, are required to follow a course introducing them to the principles and practice of the four closely allied branches of art—drawing, painting, modeling, and design—and are required to register for the following courses: First semester, courses 1, 3, 16. Second semester, courses 2, 3, 12, 16. (See General Description of Courses).

The above course may be followed by two years devoted to painting, modeling, or design, as the student may elect.

THE COLLEGE OF SCIENCE

The College of Science offers two distinct groups of courses. The courses of the first group aim to give the student an opportunity to obtain a liberal education in a scientific setting and lead ordinarily to the A.B. degree. These courses include not only work in the sciences, but in the humanities as well. They are distinguished from the courses offered in the College of Literature and Arts mainly by giving the student an opportunity to do his major work in some one of the biological, physical, or mathematical sciences. There are other subjects, however, which may be taken as a major in either college, according as the student prefers to elect the remainder of his work in accordance with the group system of the one college or the other.

The courses of the second group are of a more or less technical character and are planned with reference to the needs of a scientific profession. These courses give fewer opportunities for elective studies and lead ordinarily to the B.S. degree.

ADMISSION

Applicants for admission to the freshman class in the College of Science must be at least sixteen years of age.

As in the case of the other Colleges, admission may be by certficate from a fully accredited high school, or by examination, or by transfer of credits from some other college or university.

The conditions for admission from an accredited high school are described on page 31. The subjects which the accredited high school certificate must cover, or which the student must take by examination if he does not come from an accredited high school, are indicated in the following paragraphs.

Admission by Examination

For the times of examination see page 30.

In all cases 15 units[1] of high school work are required. Of these 15 units the following subjects are prescribed in the amounts indicated and no substitutes are accepted:

[1]See page 22.

Algebra	1½ units
English Composition	1 unit
English Literature	2 units
Geometry, Plane	1 unit
Science	2 units

The remainder of the 15 units required for admission must be made up from the elective subjects listed on page 23 and described on pages 24 ff. No subject will be accepted in an amount less than the minimum indicated in that table.

Students who enter for the course in *ceramics* and in *chemical engineering* must offer two units of German among their elective subjects.

Admission by Transfer of Credits and to Advanced Standing

For the conditions of admission by transfer from other colleges and universities, and admission to advanced standing and registration, see page 38.

Admission as Special Students

Persons over twenty-one years of age, *not candidates for a degree,* may be admitted to classes, after satisfying the Dean, and the professor in charge of the department in which such classes are taught, that they possess the requisite information and ability to pursue profitably, as special students, the chosen subjects. Such students are not matriculated; they pay a tuition fee of seven dollars and a half a semester, in addition to the regular incidental fee of twelve dollars. No one may enroll in the University as a special student for more than two years, except upon the recommendation of the faculty of the college, and the approval of the Council of Administration.

After successfully completing thirty semester hours of university work, a special student may receive such credits toward matriculation on account of practical experience in the line of his course as the head of the department and the Dean of the college may recommend, and the President of the University may approve.

EQUIPMENT

Astronomy.—The Astronomical Observatory contains a 12-inch equatorial telescope, a 3-inch combined transit and zenith telescope,

both by Warner and Swasey, and Brashear, two small equatorials, a Riefler clock, three chronometers, and a number of small instruments for student use.

Botany.—The botanical laboratories are: One with full equipment of apparatus, aquaria, models, charts, etc., for general work; one specially arranged for instruction and research in vegetable physiology, having attached a glazed structure, two stories in height, adapted to facilitate experiments upon living plants and to grow specimens required in the laboratories; one fitted up for bacteriological instruction and investigation (in the agricultural building) supplied with the necessary apparatus and materials; and several smaller apartments for special purposes.

The department is provided also with a room for the herbarium and facilities for work in connection therewith; work-rooms for the preparation of specimens; storage-rooms for apparatus, utensils, reagents, and materials; dark room for photography, and rooms for offices. Special attention has been given to parasitic fungi; and the collection of specimens and of literature upon the subject is ample for various lines of original investigation.

Ceramics.—Much of the student's work is done in the regular classes and laboratories of the well equipped departments of chemistry, physics, geology, and engineering, where he comes in contact with students who are specializing in those subjects. His purely technical work is carried on in laboratories newly furnished with the necessary machines, kilns, and furnaces. The close relations which obtain between the department and the Clay Workers' Association of Illinois and with the Geological Survey, whose investigations in clays are made in our laboratories, afford the student exceptional facilities for contact with both practical work and experienced clay workers.

Chemistry.—The chemical building has a total floor area of approximately 80,000 square feet. Two main laboratories, with desk room for 350 students, are devoted to general chemistry. Two other main laboratories, with room for 80 students each, are equipped for analytical and organic chemistry. Smaller laboratories are provided for special work in sanitary chemistry, physical chemistry, metallurgy and assaying, gas analysis, food investigation, coal survey, and constant-temperature rooms for calorimetry.

Special laboratories are also equipped for conducting the chemical survey of the waters of the state, and for doing the chemical work of the engineering experiment station. Numerous small re-

search rooms are provided for special individual work. The chemical library is well supplied with sets of the more important journals and current periodicals. Especially noteworthy is the addition to the seminary equipment of the Palmer Memorial Library, available to all chemical students under suitable restrictions.

Entomology.—This department utilizes for purposes of instruction the entomological collections, library, and equipment belonging to the University or made immediately available to students by the State Laboratory of Natural History and the office of the State Entomologist, both permanently established here. The entomological work of the Natural History Survey, now prosecuted continuously, and the scientific and economic studies of the State Entomologist and his assistants, give entomological students extraordinary privileges of experience in the laboratory, the office, and the field, in both scientific and economic work.

The instructional equipment of this department consists of a special laboratory for students, with an ample general apparatus for field work, and two special collections, one for reference by students engaged in the determination of species, and the Bolter collection of 120,000 specimens—maintained separately by the University and open to advanced students under suitable restrictions. The department also owns numerous *papier-maché* models, a collection of wall charts, and many microscopic slides especially prepared for students' use.

Geology.—The department is equipped with a modern electric lantern and the usual maps, charts and models.

The laboratories are supplied with all the apparatus necessary to carry forward the various courses, and with references and study collections sufficiently large to meet all the requirements of large classes. The mineral collection comprises a study set of minerals numbering about 500 specimens, and a reference set of 6,000 specimens, besides 1,000 wooden crystal models, and an illustrative suite of gems. The collections in economic geology contain about 6,000 specimens gathered from all parts of the world. They include the principal ores, fuels, abrasives, pigments, and other minerals of economic value.

The collection for lithology embraces a set of hand-specimens and thin sections illustrating Professor Rosenbusch's text-books, and a type set of domestic and foreign rocks numbering about 1,500 specimens. Besides these there is a working collection of rocks including about 7,000 specimens, and a reference collection of 1,000 thin

sections. A special set of polished marbles, granites, and other building stones is also available for study.

The paleontological collection (49000 specimens) contains representative fossils from the entire geologic series, but is especially rich in paleozoic forms. It embraces the private collections of A. H. Worthen (including 742 type specimens described in the reports of the Illinois Geological Survey); Tyler McWhorter; Mr. Hertzer; 200 thin sections of corals; the Ward collection of casts, and a considerable number of special collections representing the fauna and flora of particular groups.

The department occupies the second and part of the third floors at the east end of the Natural History building, besides two laboratories and a storeroom in the basement. There are six laboratories, a class room, office, a dark room and several rooms for storage purposes.

Mathematics.—The department is supplied with a collection of mathematical models. The collection includes a set of plaster models illustrating the properties of surfaces of the second order, a set of string models for ruled surfaces, a set of paper models illustrating the real circular sections of certain concoids, a complete set of Brill's models for the theory of functions, and a collection of surfaces of third order.

Physics.—The department occupies, in Engineering Hall, a lecture room, with seats for 200 students; four adjoining rooms, for lecture apparatus and preparation; a general laboratory room 60 feet square; an adjoining apparatus room; six small laboratories on the first floor with masonry piers, a constant temperature room, a battery room, a work shop, and three offices for instructors. These rooms are supplied with gas, water, compressed air, vacuum pipes, polyphase, alternating and direct electric currents, and other facilities for instruction and investigation in physics. The laboratory contains a large collection of standard electrical and magnetic measurement apparatus, and various pieces and devices designed and constructed in the department. Spectrometers, Rowland diffraction gratings (plane and concave), a Fresnel optical bench, a complete photometer bench in a well-equipped dark room, a spectrum photometer, polarization apparatus, apparatus for measurements of precision, such as balances, dividing engines, cathetometer, chronograph, Kater's pendulum, thermometers, pyrometers, etc., are provided. The work shop is equipped with two power lathes, milling machine, and tools.

Physiology.—The department occupies five rooms in Natural History Hall; a general laboratory, a lecture room, a private laboratory, an advanced laboratory on the third floor, and an animal room in the attic. The general laboratory, 35 by 56 feet, is fitted at one end with desks for chemical and similar work, and at the other end with tables for use with the microscope and other apparatus requiring a stable support.

Psychology.—The laboratory is well equipped with materials and apparatus for a large number of class experiments upon sensation, which the student is required to conduct himself, and of which a careful record is kept. The higher mental functions are then studied experimentally, and the experimenter held responsible for the purity of the experimental conditions and the method of procedure.

A full line of periodical literature is made accessible by the University, and this serves as a basis of reports in the seminary.

For original research the laboratory is well equipped with suitable apparatus and every incentive is given toward a high grade of work.

Zoology.—The equipment of the department is contained in three students' laboratories, instructors' laboratories, a lecture room, two private offices, a store room, and a dark room for photography. Advanced and graduate students have the use of the library and equipment of the State Laboratory of Natural History, which occupies rooms in Natural History Hall.

Courses Leading to the A.B. Degree

The courses of study leading ordinarily to the degree of bachelor of arts are the General Course in Science and the Six-year Medical Course.

GENERAL COURSE IN SCIENCE

To graduate from a general course in science the following requirements must be fulfilled:

1. The student must complete the work indicated in the prescribed list, except that physics and chemistry will not be required of students who have had one year courses in these subjects in an accredited high school or acceptable equivalent courses elsewhere.

2. There must be obtained from the five groups of electives the number of hours' credit mentioned under each group. The physics and chemistry of the prescribed list may be applied on the requirements of Groups 1 and 2. Students who have had three years of work in foreign language in an accredited high school, or an equivalent course elsewhere, will be relieved from the requirement of Group 4. Those who have had one year or two years of high-school language may be relieved from 4 hours or 8 hours respectively, of the requirement of Group 4. No credit is given for a part of the first university year of any language.

3. A total credit of at least 20 hours must be secured in some one of the divisions of the major elective list. Not more than 40 hours' work (exclusive of thesis) in any one of these divisions may be applied toward graduation. In arranging the subjects to be counted toward the major requirement the student is advised to consult with the head of the department in which the major is taken.

4. The student must secure enough additional credits from the general elective list to complete the graduation requirement of 130 hours.

General Classification of Subjects

Prescribed List

Chemistry 1.
Physics 2a, 2b, (or 1, 3).
Rhetoric 1.
Military Science 1, 2.
Physical Training—
  Men, 1, 3.
  Women, 7, 9.

Group Electives

Group 1. 10 hours required.
  Mathematics.
  Physics.
  Astronomy.
  Physiography.
Group 2. 10 hours required.
  Chemistry.
  Geology (including Mineralogy).

Household Science.

Group 3. 10 hours required.
Botany.
Zoology (including Entomology).
Physiology.
Psychology.

Group 4. 16 hours required.
Foreign Language.

Group 5. 8 hours required.
English Literature.
History.
Political Science.
Economics.
Philosophy.
Education.

Major Electives

Astronomy.
Botany.
Chemistry.
Education.
Geology (including Mineralogy).
Household Science.
Library Science.
Mathematics.
Physics.
Physiology.
Psychology.
Zoology (including Entomology).

General Electives

The subjects which may be taken as general electives include not only the branches taught by the departments of this college, but those offered by the other colleges and schools of the University. Courses in history, economics, languages, literature, and philosophy, taught in the College of Literature and Arts; those in agronomy, animal husbandry and horticulture, taught in the College of Agriculture; and certain courses taught in the College of Engineering and in the Library School afford abundant material from which elections may be made.

Approximately one-third of the work to be counted toward graduation may be selected subject to the approval of the Dean, from

the subjects taught in other colleges of the University if the student so desires.

Thesis

A thesis course may be taken in any department (subject to the approval of the head thereof) in which the student has done 20 hours of major work preceding his senior year. Students desiring to take a thesis course in geology or mineralogy may add to their credits in those subjects the credits received for chemistry also; and students in physiology may add to their credits in that subject those in zoology and bacteriology. Only students graduating with a thesis will, as a rule, be selected for fellowships, scholarships, and other similar university honors. Candidates for special honors are required by the general university regulations to write a thesis.

Prospectus of Course of Instruction

First Year

Fifteen to eighteen hours a week, including military and physical training, must be chosen each semester.

Military science and tactics are required of all male students. Drill extends through the freshman and sophomore years, and tactics through the second semester of the freshman year.

Physical training is required of all freshmen, men and women, two hours for men and three hours for women.

The following subjects are open to freshmen:

first semester

Prescribed Subjects[1]*:* Chemistry 1; Rhetoric 1; Military 2; Physical Training 1 and 3 for men; 7 and 9 (Physiology 6) for women.

Group 1: Astronomy 1; Mathematics 2, 4 or 1, 3; Physical Geography (Geology 8).

Group 2: Chemistry 2 and 3 (for those who have had Chemistry 1 or its equivalent); Geology 1, 5 (Mineralogy), 10; Household Science 2.

Group 3: Botany 2, 4, 11; Entomology 4; Zoology 1, 10.

Group 4: French 1; German 1, 4 (for those offering two units for entrance); Greek 1, 5 (for those offering entrance units);

[1]See page 81, requirement 1.

Italian 1; Latin 1 (for those offering 3 units for entrance); Spanish 1.

Group 5: Economics 7, 26; English 1; History 1, 11.

General Electives: See statement on page ——.

SECOND SEMESTER

Prescribed Subjects: Rhetoric 1; Military 1, 2; Physical Training 1 and 3 for men; 7 and 9 (Physiology 6) for women.

Group 1: Astronomy 4; Mathematics 6; Physical Geography (Geology 8).

Group 2: Chemistry 1, 2, 3 and 5a (after Chemistry 2 and 3); Geology 1a, 6 (Optical Mineralogy); Household Science 1, 3.

Group 3: Botany 1, 5, 16, 17; Entomology 3; Physiology 4; Zoology 1, 2, 10, 16, 17b.

Group 4: French 1; German 3, 5 or 6 (after German 4); Greek 2, 6 (after Greek 5); Italian 1; Latin 1; Spanish 1.

Group 5: Economics 22, 26; English 23, 27; History 1, 11.

General Electives: See statement on page 82.

HOUSEHOLD SCIENCE

The courses of instruction given in the department are planned to meet the needs of two classes of students, viz.: (a) those students who specialize in other lines of work, but desire a knowledge of the general principles and facts of household science; (b) those students who wish to make a specialty of household science for the purpose of teaching the subject in secondary schools and colleges.

Students holding scholarships in household science must select that subject as a major. They must elect throughout the four years' continuous work in the department of household science or in subjects required for admission to the courses of that department.

For the convenience of such students the following outline is given, suggesting the proper sequence of subjects:

First Year

1. Chemistry 1; Mathematics 4; Zoology 10; Art and Design 1; Physical Training 7 and 9.

2. Household Science 1; Chemistry 2 and 3; Botany 5; Physical Training 7.

Second Year

1. Chemistry 13a; Household Science 2, 6, 7; Architecture 41.

2. Chemistry 9 and 9c; Physiology 4; Household Science 12.

THIRD YEAR

1. Economics 1; Household Science 13; Physics 2a; Architecture 29a and 29b.

2. Household Science 3, 5, 8; Sociology 5.

FOURTH YEAR

Household Science 4, 9, 10, 11.

In order to graduate the student must also satisfy the other requirements for graduation in the general course in science.

Students not holding scholarships in household science may make that subject a major by meeting the general requirements concerning majors.

LIBRARY SCIENCE

Library Science has been added to the list of major electives to meet the needs of those who are preparing for positions in scientific libraries, but are unable to complete the course as outlined in the Library School.

PREPARATION OF SCIENCE TEACHERS

To graduate with a preparation for the teaching of science in the secondary schools, the student must meet the requirements of the general science course, choosing his major in that group containing the subjects which he wishes especially to teach, and adding Education 1, 3 and 7, Psychology 1, Philosophy 1, and at least four hours more in education or psychology.

As to the amount and the character of the work which should be taken in the major subject and those allied to it, the student should consult with the head of the department in which the principal work is taken. See also the circular of the School of Education.

THE SIX-YEAR MEDICAL COURSE

In addition to the usual four years' medical course, described elsewhere, the University offers a six-years' continuous course in general science and medicine. This course leads to the degree of bachelor of arts upon the completion of four years' work, and to the degree of doctor of medicine at the end of the six years' course. It includes everything contained in the four years' medical course, and in addition enables the student to go more deeply than would

otherwise be possible into the fundamental sciences upon which medical studies are based.

Students who wish so to combine their work in general science with their professional studies in medicine as to receive both degrees may accomplish this purpose by pursuing at the University in Urbana the three years' work described below, including a year of medical studies, and then continuing their medical work in the College of Medicine in Chicago.

Prospectus of the Six Year Medical Course

First Year

First semester		Second semester	
Subject—	S. H.*	*Subject*—	S. H.
General Chemistry (Chem. 1)..	5	Descrip. Inorg. Chem. (Chem. 2)	2
Rhetoric and Themes (Rhet. 1).	3	Qualitative Analysis (Chem. 3)	3
Military (Mil. 2).....	1	Rhetoric 1	3
Physical Training	1	Military (1, 2).....	2
Trigonometry (Math. 4).....	2	Physical Training	1
Zoology 10	5	Zoology 2	5
Total	17	Total	16

Second Year

First semester		Second semester	
Subject—	S. H.	*Subject*—	S. H.
German 1 or 4 or Latin[1].....	4	German 3 or 5 or 6 or Latin[1]..	4
Zoology 3	3	Zoology 3	3
Quantitative Analysis (Chem. 5a)	5	Organic Chem. (Chem. 9, 9c)..	5
Military 2	1	Military 2	1
Physics 2a	4	Physics 2a	4
Total	17	Total	17

Third Year

First semester		Second semester	
Subject—	S. H.	*Subject*—	S. H.
German 4	4	German 5 or 6.....	4
Psychology 1, 9.....	5	Physiology 1	5
Physiology 1	5	Bacteriology (Bot. 5).....	5
Electives[2]		Electives[2]	
Total	14	Total	14

Fourth Year

Students, who can afford it, would do well to spend a fourth year in continuing this course. For such students no studies are *prescribed*—each one is given free choice for selecting what he needs to round out his general education, or to prepare to specialize

*Semester hours.

[1]If Latin has not been offered for entrance.

[2]Physiology 2 is advised as an elective. Those who have completed two years' German should elect French. If a student knows he will remain through a fourth year, he is advised to elect French in the third year, and Physiology 2 in the fourth.

in some line of his future work. Upon the completion of this fourth year, the student takes his baccalaureate degree before going to the College of Medicine in Chicago.

Students who complete the above three years of prescribed work at the University, together with electives sufficient to amount to 97 hours' credit, will be given the degree of bachelor of arts at the commencement next following the completion at the Medical College of the work in human anatomy, physiology of the special senses and of the nervous system, therapeutics, general pathology, pathological anatomy, and surgical pathology (virtually one year's work).

The following subjects included in the above prospectus also count toward the medical degree:

Chemistry (general, organic, qualitative and quantitative analysis, and Toxicology), Biology (Zoology), Physiology, Normal Histology, Embryology, and Bacteriology.

Upon the satisfactory completion of the remaining three years of the medical course the University will confer the degree of doctor of medicine.

Courses Leading to the B. S. Degree

The following courses of instruction in this College lead ordinarily to the degree of bachelor of science.

COURSE IN CERAMICS

To graduate in ceramics the student must follow one of the courses outlined below. The conditions are such that but little election can be allowed.

Special courses will be arranged for those who wish a limited amount of work in ceramics, but those pursuing them will not be entitled to a degree and will not be recognized as graduates.

Prospectus of Course in Ceramics

First Year

First Semester		Second Semester	
Subject—	S. H.[1]	*Subject*—	S. H.
General Chemistry	5	Inorganic Chemistry	2
Alg. and Trig. (Math. 2, 4)	5	Qualitative Analysis (Chem. 3)	3
Rhetoric 1	3	Analytical Geometry (Math. 6)	5
Classification and Physical Testing of Clays (Cer. 1)	3	Rhetoric 1	3
Military (Mil. 2)	1	Winning and Preparation of Clays (Cer. 2)	3
Physical Training	1	Physical Training	1
		Military (Mil. 1, 2)	2
Total	18	Total	19

[1]Semester hours. See part III.

Second Year

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.	*Subject*—	S. H.
Quantitative Analysis (Chem. 5a)	5	Silicate Analysis (Chem. 5a)...	5
Physics 1, 3	5	Physics 1, 3	4
Mineralogy (Geol. 5) 1, 2	5	Geology 1	5
Military	1	Physical Calculations (Cer. 3).	2
		Military	1
Total	16	Total	17

Third Year

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.	*Subject*—	S. H.
German, or French 2	4	German, or French 2	4
Physics of Heat (Phys. 16a, 16b)	4	Clay Modeling (A and D 8)....	2
General Engineering Drawing..	3	Working Drawings (Arch. 10).	1
Free Hand Drawing (A and D1)	2	Body Making (Cer. 5)	6
Drying and Burning (Cer. 4)..	4	Economic Geology of Ceramic Materials (Geol. 2)	2
Total	17	Total	15

Fourth Year

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.	*Subject*—	S. H.
Calculus (Math. 8a)	5	Physical Chem. (Chem. 31, 33).	5
Glazes (Cer. 6)	6	Colors of Bodies and Glazes (Cer. 8)	3
Ceramic Stoichiometry (Cer. 7)	2	Thesis (Cer. 11)	8
Analysis of Glasses and Glazes (Chem. 6, 8a)	3		
Total	16	Total	16

Course in Ceramic Engineering

First Year

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.	*Subject*—	S. H.
General Chemistry (Chem. 1).	5	Inorganic Chemistry	2
Alg. and Trig. (Math. 2, 4)..	5	Qualitative Analysis (Chem. 3)	3
German 4	4	German 5	4
General Engineering Drawing..	3	Analytical Geometry (Math. 6).	5
Military	1	Military	2
Physical Training	1	Physical Training	1
Total	19	Total	17

Second Year

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.	*Subject*—	S. H.
Quantitative Anal. (Chem. 5a).	4	Silicate Analysis (Chem. 5b)..	6
Physics 1, 3	5	Physics 1, 3	4
Geology 5	4	Geology 1	5
Calculus (Math. 8)	5	Winning and Preparation of Clays (Cer. 2)	3
Military	1	Military	1
Total	19	Total	19

THIRD YEAR

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.	*Subject*—	S. H.
Physics 16a, 16b	4	Analytical Mechanics (T. & A. M. 7)	3
Drying and Burning (Cer. 4)	4	Body Making (Cer. 5)	6
Electrical Engineering (E. E. 2)	2	Working Drawings (Arch. 10)	1
Elec. Eng. lab. (E. E. 26)	2	Steam Engines and Boilers (M. E. 11)	3
Rhetoric 1	3	Rhetoric 1	3
Total	15	Total	16

FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.	*Subject*—	S. H.
Analytical Mechanics (T. & A. M. 8)	2½	Surveying (C. E. 10)	2
Resistance of Materials (T. & A. M. 9)	3½	Geology 2	2
Ceramic Stoichiometry (Cer. 7)	2	Ceramic Construction (Cer. 10)	3
Glazes (Cer. 6)	6	Thesis (Cer. 11)	8
Thesis (Cer. 11)	1	Total	15
Total	15		

PROSPECTUS OF COURSE IN CEMENT MAKING

By making the substitutions indicated below in the course in ceramics, that course will be found to meet the needs of the student who wishes to prepare for the manufacture of limes and cements:

In the first semester of the third year, substitute Chemistry 65 and Ceramics 10 for Art and Design 1 and Ceramics 4. In the second semester substitute Physics 17 for Art and Design 8.

In the fourth year, first semester, substitute Chemistry 68b and Civil Engineering 5 for Ceramics 6 and Chemistry 68a; and in the second semester, substitute Ceramics 9 for Ceramics 8.

COURSE IN CHEMISTRY

The student may pursue a course in general science having chemistry as a major subject by conforming to the group requirements as outlined on pages 81ff. Upon its completion the candidate is granted a degree of bachelor of arts.

For the more specialized training of the chemist the following course, largely prescribed, has been arranged. It leads to the degree of bachelor of science in chemistry.

Prospectus of Course in Chemistry

First Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
General Elementary Chemistry (Chem. 1)	5	Analytical Geometry (Math. 6).	5
Trigonometry (Math. 4)	2	Descriptive Inorganic Chemistry (Chem. 2)	2
Advanced Algebra (Math. 2)	3	Qualitative Analysis (Chem. 3).	3
Rhetoric 1	3	German 3	4
German 1	4	Military (Mil. 2)	1
Military (Mil. 2)	1	Drill Regulations (Mil. 1)	1
Gymnasium (Phys. Tr. 1, 3)	1	Gymnasium (Phys. Tr. 1, 3)	1
Total	19	Total	17

Second Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
German 4	4	German 5	4
Quantitative Anal. (Chem. 5a).	5	Advanced Analytical Chemistry (Chem. 5b)	5
Physics 1, 3	5	Rhetoric 1	3
English 1 or History 1, 3	4	Physics 1, 3	4
Military (Mil. 2)	1	Military (Mil. 2)	1
Total	19	Total	17

Third Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Mineralogy	3	Organic Chem. (Chem. 14, 9a).	5
Organic Chem. (Chem. 14, 9b).	5	Physical Chemistry (Chem. 31, 33a)	5
Seminary (Chem. 90)	1	Seminary (Chem. 90)	1
Gas and Fuel Anal. (Chem. 65).	2	Philosophy	3
Economics	2	Electives	5
Electives	3		
Total	16	Total	19

Fourth Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Seminary (Chem. 91)	1	Seminary (Chem. 91)	1
Thesis (Chem. 11)	5	Thesis (Chem. 11)	5
Electives	10	Industrial Chem. (Chem. 61)	2
		Electives	8
Total	16	Total	16

COURSE IN CHEMICAL ENGINEERING

The work of the technical chemist or superintendent is frequently so closely associated with mechanical and other engineering lines as to make a knowledge of these subjects essential. To meet these conditions, the following four years' course in chemistry and related engineering subjects has been arranged. The degree given is that of bachelor of science in chemical engineering.

Preliminary preparation in German is required equivalent to two years of high school or one year of university work.

Prospectus of Course in Chemical Engineering

First Year

FIRST SEMESTER

Subject—	S. H.
General Elementary Chemistry (Chem. 1)	5
Trigonometry (Math. 4)	2
Advanced Algebra (Math. 2)	3
German 4	4
General Engineering Drawing (G. E. D. 1)	3
Military (Mil. 2)	1
Gymnasium (Phys. Tr. 1, 3)	1
Total	19

SECOND SEMESTER

Subject—	S. H.
Analytical Geometry (Math. 6)	5
Descriptive Inorganic Chemistry (Chem. 2)	2
Qualitative Analysis (Chem. 3)	3
German 5	4
Military (Mil. 2)	1
Drill Regulations (Mil. 1)	1
Gymnasium (Phys. Tr. 1, 3)	1
Total	17

Second Year

FIRST SEMESTER

Subject—	S. H.
Differential and Integral Calculus (Math. 8a)	5
Rhetoric 1	3
Quantitative Anal. (Chem. 5a)	5
Physics 1, 3	5
Military (Mil. 2)	1
Total	19

SECOND SEMESTER

Subject—	S. H.
Chemical Tech. (Chem. 6b)	2
Analytical Mech. (T. & A. M. 7)	3
Advanced Analytical Chemistry (Chem. 5b)	5
Rhetoric 1	3
Physics, 1, 3	4
Military (Mil. 2)	1
Total	18

Third Year

FIRST SEMESTER

Subject—	S. H.
Mineralogy	3
Physics 15	2
Analytical Mech. (T. & A. M. 8)	2½
Resistance of Materials (T. & A. M. 9)	3½
Organic Chem. (Chem. 14, 9b)	5
Seminary (Chem. 90)	1
Total	17

SECOND SEMESTER

Subject—	S. H.
Economics, Electrical Engineering or Geology	5
Physical Chem. (Chem. 31, 33a)	5
Organic Chem. (Chem. 14, 9a)	3
Steam Engines and Boilers (M. E. 11)	3
Seminary (Chem. 90)	1
Total	17

Fourth Year

FIRST SEMESTER

Subject—	S. H.
Electro-chemistry (Chem. 35)	2
Mech. Eng. Lab. (M. E. 13)	2
Gas and Fuel Anal. (Chem. 65)	2
Metallurgy (Chem. 6a)	2
Thesis (Chem. 11)	5
Seminary (Chem. 91)	1
Electives	3
Total	17

SECOND SEMESTER

Subject—	S. H.
Iron and Steel Anal. (Chem. 8)	2
Thesis (Chem. 11)	5
Industrial Chem. (Chem. 61)	2
Seminary (Chem. 91)	1
Electives	5
Total	15

COLLEGE OF ENGINEERING

FACULTY

EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT

WILLIAM FREEMAN MYRICK GOSS, M.S., D.ENG., DEAN

In Architecture—

NATHAN CLIFFORD RICKER, D.ARCH., Professor.

NEWTON ALONZO WELLS, M.P., Professor, Architectural Decoration.

JAMES MCLAREN WHITE, B.S., Professor, Architectural Engineering.

JOHN WATROUS CASE, Assistant Professor, Architectural Design.

CHARLES RICHARD CLARK, B.S., Associate, Architectural Construction.

JOHN TERRELL VAWTER, B.S., Instructor.

In Civil Engineering—

IRA OSBORN BAKER, C.E., D.Eng., Professor.

JOHN PASCAL BROOKS, M.S., Associate Professor.

FRANK OLIVER DUFOUR, C.E., Assistant Professor, Structural Engineering.

CHARLES WESLEY MALCOLM, C.E., Assistant Professor, Structural Engineering.

LAWRENCE GILBERT PARKER, C.E., Associate.

RALPH BETHUEL SLIPPY, C.E., Instructor.

CARROLL CARSON WILEY, B.S., Instructor.

JOHN JEFFERSON RICHEY, B.S., Instructor.

GEORGE WELLINGTON PICKELS, Jr., C.E., Instructor.

JAMES ELMO SMITH, B.S., Instructor.

WILLARD ALFRED KNAPP, B.S., Assistant.

In Electrical Engineering—

MORGAN BROOKS, Ph.B., M.E., Professor.

ELLERY BURTON PAINE, M.S., E.E., Assistant Professor.

Edward Hardenburgh Waldo, A.B., M.E., Assistant Professor.
John Myron Bryant, B.S., Associate.
Frank Gardner Willson, B.S., Instructor.
Oddgeir Stephensen, A.B., Assistant.
Harry Gray Hake, B.S., Assistant.
Leonard Vaughan James, B.S., Assistant.

In Mechanical Engineering—

Lester Paige Breckenridge, Ph.B., Professor.
George Alfred Goodenough, M.E., Associate Professor.
Oscar Adolph Leutwiler, M.E., Assistant Professor, Machine Design.
James Herbert Gill, M.E., Assistant Professor, Machine Construction.
John Charles Thorpe, M.E., Assistant Professor, Steam Engineering.
David Leonard Scroggin, Instructor, Machine Shop.
Edgar Thomas Lanham, Instructor, Forge Shop.
William Van Dunkin, B.S., Instructor, Machine Design.
Claude Mallory Garland, B.E., Instructor.
Frederick Ellis, Instructor, Wood Shop.
Harry Frederick Godeke, B.S., Instructor, Mechanical Engineering Laboratory.
Shields Casper, Instructor, Foundry.
Alfred Rittscher Bench, B.S., Instructor.
Henry Bernhard Dirks, M.E., Instructor.
Loma William Goben, Assistant, Machine Shop.
James Merion Duncan, Assistant, Wood Shop.
John Barber Cook, Assistant, Forge Shop.
John Wesley Tarflinger, Assistant, Foundry.
William Clarence Bradford, Assistant, Machine Shop.

In Municipal and Sanitary Engineering and Theoretical and Applied Mechanics—

Arthur Newell Talbot, C.E., Professor, Municipal and Sanitary Engineering; in charge of Theoretical and Applied Mechanics.
Herbert Lucius Whittemore, B.S., Associate, Applied Mechanics.
Roy Victor Engstrom, B.S., Associate, Theoretical and Applied Mechanics.
Tansey Radford Agg, B.S., Instructor, Theoretical and Applied Mechanics.

Harvey Ellison Murdock, B.S., Instructor, Theoretical and Applied Mechanics.
Melvin Lorenius Enger, B.S., Instructor, Theoretical and Applied Mechanics.
Virgil R Fleming, B.S., Instructor, Applied Mechanics.
George Conrad Habermeyer, B.S., Instructor, Municipal and Sanitary Engineering.

In Physics—
Albert Pruden Carman, Sc.D., Professor.
Charles Tobias Knipp, Ph.D., Assistant Professor.
Floyd Rowe Watson, Ph.D., Assistant Professor.
Elmer Howard Williams, A.M., Instructor.
Waldemar Matthaeus Stempel, A.M., Instructor.
William Warren Stifler, B.A., Assistant.
Carl August Hellmann, B.S., Assistant.
Otto Stuhlmann, Jr., B.A., Assistant.
Edward Beattie Stephenson, M.S., Fellow.

In Railway Engineering—
William Freeman Myrick Goss, M.S., D.Eng., Director.
Edward Charles Schmidt, M.E., Associate Professor.
Edgar Isaac Wenger, B.S., Associate.

In General Engineering Drawing—
Carlos Lenox McMaster, C.E., Associate.
Charles Bayard Gibbons, B.S., Instructor.
Carl Rankin Dick, B.S., Instructor.
Sherwood Hinds, B.S., Instructor.
Francis Marion Porter, B.S., Assistant.

GENERAL INFORMATION

The purpose of this College is threefold:

1. To give a course combining cultural and professional training which will enable men to do efficient work in their chosen lines of engineering or architecture.

2. To provide instruction for graduates and to supervise their studies in selected fields, thus meeting a demand for highly specialized instruction and research.

3. To conduct original investigations and experiments in those lines of research which are of greatest interest and import to the engineering and industrial enterprises of this state.

EQUIPMENT

The six buildings devoted exclusively to the work of the Engineering College are described on pages 7-11; they furnish a total net room area of 127,000 square feet.

The special equipment of each department is described in connection with that department. The general equipment of the College consists of a good reference library of indexes, pocket-books, mathematical tables, and other works, together with a valuable collection of apparatus for economizing time and ensuring accuracy in engineering calculations, and checking computations.

ADMISSION

Applicants for admission to the freshman class of the University in the College of Engineering must satisfy the general requirements described on pages 22 ff.

Admission may be obtained, as in the case of the other Colleges and Schools, by presenting a certificate from an accredited high school, as described on page 23; or by transfer of credits from some other college or university[1]; or by examination. Subjects which the high school certificate must cover, or on which examinations must be passed, are listed below.

In all cases 15 units[2] of high school work are required. Of these the following are prescribed and substitutes are not accepted:

Algebra	1½ units
English Composition	1 unit
English Literature	2 units
Geometry, Plane	1 unit
Geometry, Solid and Spherical	½ unit

The remainder of the 15 units required for admission must be made up from the elective subjects listed in the table on page 23 and in the amounts there described.

On and after September, 1908, 1 unit in physics and 1 unit in German, French, or Spanish will be added to the present list, leaving only 7 of the 15 units elective.

For admission by transfer of credits, and admission to advanced standing see page 38.

[1] See page 38.
[2] See page 22.

Admission as Special Students

Persons over twenty-one years of age, *not candidates for a degree,* who have passed the entrance requirements in mathematics and English, may be admitted to classes, after satisfying the Dean and the professor in charge of the department in which such classes are taught, that they possess the requisite information and ability to pursue profitably, as special students, the chosen subjects. Such students are not matriculated; they pay a tuition fee of seven dollars and a half a semester, in addition to the regular incidental fee of twelve dollars. No one may enroll as a special student for more than two years, except upon the recommendation of the faculty of the college and the approval of the Council of Administration.

After successfully completing thirty semester hours of university work, a special student may receive such credits toward matriculation on account of practical experience in the line of his course as the head of the department and the dean of the college may recommend and the President of the University may approve.

DESCRIPTION OF DEPARTMENTS

The College of Engineering comprises the following departments:

Department of Architecture, Courses in—
- Architecture.
- Architectural Engineering.
- Architectural Decoration.

Department of Civil Engineering.

Department of Electrical Engineering.

Department of Mechanical Engineering.

Department of Municipal and Sanitary Engineering.

Department of Theoretical and Applied Mechanics.

Department of Physics.

School of Railway Engineering and Administration

Department of Railway Engineering. Courses in—
- Railway Civil Engineering.[1]
- Railway Electrical Engineering.
- Railway Mechanical Engineering.

[1] There is also given in the School of Railway Engineering a course in railway administration, under the direction of the department of economics of the College of Literature and Arts. For this course see "Training for Business," pages 71 ff.

ARCHITECTURE

This department offers three courses of instruction and practice, preparing the graduate to enter the respective professions of architect, of architectural engineer, or of decorator of buildings.

Equipment

A large collection of casts of ornament, models of structures, working drawings and blue prints, and of specimens of stones, bricks, tiles, terra cotta, fixtures and fittings, of 300 species of American woods, etc., is arranged in the architectural museum. More than 20,00 engravings, photographs, etc., mounted on cards, are classified for quick reference in the drawing rooms and library. An electric lantern is used in a specially fitted room, together with a collection of 8,500 lantern slides illustrating the history of architecture and of art. A Zeiss' Epidiascope is also used for projecting photographs, colored plates and views in their actual colors. The architectural library is located in a room in the department, and is open for use by students during the entire day. It also includes a large classified collection of plates from architectural journals and mounted photographs, and a collection of 2,400 stereoscopic views.

Purpose of Courses of Study

Architecture. This prepares graduates for State examinations and for the general practice of architecture. Especial attention is paid to the study and practice of original design, while retaining the work in construction and in strength of materials required for safe building.

Architectural Engineering. This qualifies graduates for the State examinations and for practice as architectural engineers, structural designers and superintendents of construction. Fireproof structures are a specialty. To the course in Architecture are added a year of mathematics, one of architectural engineering, and nearly a year of bridges, omitting an equivalent amount of architectural design.

Architectural Decoration. This course prepares graduates as professional decorators of first class architectural works, and designers of all forms of ornamentation applied thereto. Therefore especial attention is devoted to the study of color and historical styles, and to the use of ornament. Practical applications are made in the architectural laboratory.

CIVIL ENGINEERING

The purpose in this department is to furnish a course of theoretical instruction, accompanied and illustrated by a large amount of practice. While the instruction aims to be practical by giving the student information and practice directly applicable in his future professional work, the prime objet is the development of the mental faculties. The power to acquire information and ability to use it are held to be of far greater value than any amount of so-called practical knowledge.

Equipment

This department has an extensive equipment of compasses, engineers' transits, solar transits, levels,—ordinary and precise,—plane tables, sextants, chronometers, barometers etc. The department is also provided with a collection of structural shapes including full-sized joints of an actual railroad bridge, sections of columns, eye-bars, etc., and with lithographs, photographs, and blue-prints of bridges and buildings.

The *cement laboratory* occupies rooms in the Mechanical Engineering Laboratory, and is provided with slate tables, testing machines, molding machines, sieves, etc., and sample barrels of hydraulic cement, varieties of sand, and other necessary materials.

The *road laboratory* occupies a room in the Mechanical Engineering Laboratory, and is provided with machines for testing the resistance of macadam material to impact and abrasion and for making the cementation test. The laboratory is also supplied with a variety of rattlers and other devices for testing paving material.

ELECTRICAL ENGINEERING

This is a course of study in theoretical and applied electricity. The first two years of work are substantially the same as in the other engineering courses, including practical work in drafting room and shop, as well as instruction in the fundamental principles of mathematics and physics. With the third year the fundamental studies relate more directly to electrical engineering. A course in dynamo machinery is followed by the theory of alternating currents, while laboratory and design courses emphasize underlying principles. Technical courses cover the generation, transmission and dis-

tribution of electric power, and its various applications. In the laboratory a study of dynamo characteristics is followed in the fourth year by progressive experiments involving the operation of electrical machinery in principle and practice. Investigation of the problems of power distribution is a feature of advanced laboratory and thesis work.

Equipment

The 200 kilowatt power plant of the University located in the Electrical Engineering Laboratory supplies current for department use and affords opportunity for tests. A 40 kilowatt motor-generator recently installed in the laboratory together with two new experimental switchboards furnish excellent facilities for operating the direct and alternating machines of the department under any specified conditions.

The various types of generators, motors, converters and transformers are well represented, often in duplicate. Several machines built by students are in use in the laboratory. Modern measuring instruments of suitable range are amply provided for laboratory tests and for the calibration of commercial instruments of all types.

Two photometers and a room for display lighting offer exceptional opportunity for tests and practical comparisons of the various forms of lamps, both gas and electric. Two rooms not adjacent are furnished with special 100-line switchboards with cables, coils, batteries and instruments to illustrate recent practice in telegraphy and telephony, as well as to provide for the rapid comparisons required in telephone experiments.

A 200 horse power multiple unit control test car fully equipped with electrical and mechanical recording instruments is now in operation over the interurban line passing through the University grounds. Through the courtesy of the Illinois Traction System this car has every facility for operating over its lines between Danville, Urbana, Springfield and St. Louis, a distance of 200 miles.

MECHANICAL ENGINEERING

It is the primary object of the Department of Mechanical Engineering to give its students a thorough training in the theoretical principles underlying the construction and operation of machinery and the generation and transmission of power. The theoretical instruction is supplemented by shop and laboratory work of a practical character.

Equipment

The *drawing rooms* are equipped with card indexes, reference books, catalogs, gear charts, etc. In the cabinet rooms are kinematic models and sectional steam specialties.

The *Steam Engineering Laboratory* contains steam engines of various types, a York refrigerating machine of 10 tons refrigerating capacity, a DeLaval steam turbine direct-connected to a compound centrifugal pump, a Kerr steam turbine, a gas producer, a special test boiler of 210 horse power, an independent superheater, a compound air compressor, a four stage air compressor, several gas engines, a hot-air engine, a large volume fan, and a complete outfit of instruments used by the mechanical engineer for testing purposes. In the central heating station are several types of boilers equipped with different kinds of automatic stokers; there are also various steam and power pumps.

The shops of the College are in charge of the department of mechanical engineering; they consist of a wood shop, foundry, forge shop, and machine shop. The shops are large, well lighted and attractive; they art all equipped with modern tools and furnish abundant facilities for giving the student the necessary practice in this line of work.

By special arrangement with the management of the Peoria and Eastern division of the C. C. C. & St. L. railway, the power plant and shops located at Urbana have been opened to the Mechanical Engineering Department for visits of inspection and for experimental investigations. Ample opportunity is thus furnished for the study of machinery and processes in a shop operated under commercial conditions.

MECHANICS, THEORETICAL AND APPLIED

The courses in theoretical and applied mechanics are designed to meet the needs of students of the College of Engineering.

The laboratory of applied mechanics, comprising the materials testing laboratory and hydraulic laboratory, occupies a separate building and its equipment is extensive and well suited for instruction and investigation. The materials laboratory is equipped with testing machines for tension, compression, flexure, and torsion, and for testing various kinds of structural materials. A testing machine having a capacity of 600,000 lbs. and arranged to take large and bulky pieces in tension, compression and flexure is a recent ac-

quisition. The hydraulic laboratory has a standpipe, pumps, water motors and turbine, measuring pits, Venturi meters, weir conduits, meter rating conduit, orifice boxes, weir boxes, and apparatus for experimental work on flow of water through pipes, hose, and nozzles. The University water-works furnishes an abundant supply of water at pressures up to 100 pounds a square inch.

MUNICIPAL AND SANITARY ENGINEERING

This course is designed to train for the varied duties of the engineer employed on the design, construction, and operation of public works and public utilities, as well as to give training for general engineering work.

Instruction

The methods of training are intended to develop power to take up and solve new problems connected with municipal public works, as well as to design and to superintend the ordinary constructions. Surveying, structural materials, and structural design are taught as in the civil engineering course. Chemistry and bacteriology, so far as necessary to a comprehension of the questions involved in water supply and sewage disposal, are given. Instruction in mechanical and electrical engineering in the generation and transmission of power is given.

PHYSICS

Laboratory and Equipment

The physics department occupies, in Engineering Hall, a lecture room, with seats for 200 students; four adjoining rooms, for lecture apparatus and preparation; a general laboratory room 60 feet square, for first year experimental work; an adjoining apparatus room; six small laboratories on the first floor with masonry piers, a constant temperature room, a battery room, a work shop, and three offices for instructors. These rooms are supplied with gas, water, compressed air, vacuum pipes, polyphase, alternating and direct electric currents, and other facilities for instruction and investigation in physics. The laboratory contains a large collection of standard electrical and magnetic measurement apparatus from the best makers, together with various pieces and devices designed and constructed in the department. In optics there are spectrometers,

Rowland diffraction gratings (plane and concave), a Fresnel optical bench, a complete photometer bench in a well-equipped dark room, a spectrum photometer, polarization apparatus, etc. The collection also includes apparatus for measurements of precision, such as balances, dividing engines, cathetometer, chronograph, Kater's pendulum, thermometers, pyrometers, etc. The work shop of the department is equipped with two power lathes, milling machine, and a good collection of tools. The services of a mechanician give the department facilities for making apparatus from original designs, both for instruction and investigation.

SCHOOL OF RAILWAY ENGINEERING AND ADMINISTRATION

To meet the demand for technically trained men for railway service—not only for the engineering departments, but for the financial, traffic and operating departments as well—there has been established a School of Railway Engineering and Administration.

It is the function of this school to co-ordinate the various facilities of the University so as to provide specialized training for all branches of railway service. In developing this plan there has been created in the College of Engineering, a separate department of railway engineering; and the department of economics of the College of Literature and Arts has added to its business courses one in railway administration.

It is the purpose of this school to provide courses of training which shall prepare men to become efficient workers on steam and electric railways in all departments except the legal.

Four courses are now offered, three in engineering and one in administration. Each course occupies four years. More detailed information concerning the School of Railway Engineering and Administration and the courses offered is contained in a special circular which may be had upon application to the Registrar.

RAILWAY ENGINEERING

The department of railway engineering offers courses in

RAILWAY CIVIL ENGINEERING.

RAILWAY ELECTRICAL ENGINEERING.

RAILWAY MECHANICAL ENGINEERING.

The courses in railway civil engineering and in railway mechanical engineering are intended primarily for those who expect to enter the service of steam roads in the departments of maintenance of way and of motive power.

The course in railway electrical engineering is arranged for those who will find employment in electric railways or in the service of steam roads with electrified lines.

Equipment

Three steam roads—the Illinois Central, the Cleveland, Cincinnati, Chicago and St. Louis and the Wabash railroads—and an electrical interurban road—The Illinois Traction System—enter Champaign and Urbana. The department enjoys the interest and cooperation of the officers of these railways and is afforded by their courtesy, numerous opportunities for practical road tests and field work. The division shops of the Cleveland, Cincinnati, Chicago and St. Louis railroad are located at Urbana and provide additional opportunity for similar work.

The department has for some years owned and operated, jointly with the Illinois Central Railroad, a railway test car which was designed for experimental work on steam roads. It is fully equipped for making train resistance and locomotive performance tests, and during the last six years has been in frequent operation, in carrying on resistance and tonnage rating tests, on the Illinois Central Railroad and on several eastern roads.

For work on electric roads the department also owns an electric test car. This car, of the interurban type, was especially designed and built for the University for experimental work. It is equipped with four 50 horse power direct current motors and with the Westinghouse multiple control system and is provided with instruments for recording power, speed, acceleration and the other data needed in road tests. Through the courtesy of the Illinois Traction System, this car is operated on its lines, which enter the University campus. Much of the work in the railway courses is given in the departments of civil, electrical and mechanical engineering, and the shop and laboratory equipment of these departments is available for students of the railway department.

SUGGESTED ELECTIVES

The following courses are suggested as electives for students in the College of Engineering whose time is not fully occupied with required work:

Art and Design 1; Astronomy 3 and 6; Chemistry 2, 3a, 16, 34, 35; Economics 10, 13, 14, 16; Geology 13; Mathematics 10, 11, 14; Rhetoric 3, 7, 10, 13; Physics 15, 16, 17; Law B; Library 12; Architecture 2, 3, 4, 13; Civil Engineering 4a, 5, 21, 22; Electrical Engineering 1, 2, 5, 6, 16, 21, 25, 26, 29; Mechanical Engineering 7, 10, 26, 27, 30, 31; Railway Engineering 11.

SUMMER READING

All Engineering students not graduates of a literary college are required to complete prescribed courses of reading of a non-professional character during the summer vacations following the freshman and the sophomore years. The purpose of the summer reading is to increase the acquaintance of the student with literature, history, and general science, to develop in him a taste for such reading, and to impress him with the importance of such knowledge not only as a source of individual enjoyment, but as a practical aid to engineers in their social and business relations.

A circular on Summer Reading is issued, containing a list of books from which the student may select the books to be read. The books have been selected for their value as general training, but an attempt has been made to include only readable and attractive works. A statement of the works read during the summer is required at the beginning of the next college year.

Course of Study

Required for Degree of B.S. in Architecture

First Year

First Semester — *Subject*	S. H.[1]	Second Semester — *Subject*	S. H.[1]
General Engineering Drawing (G. E. D. 1)[2]	4	Descriptive Geom. (G. E. D. 2)	4
Trigonometry (Math. 4)	2	Analytical Geometry (Math. 6)	5
Advanced Algebra (Math. 2)	3	French 1, or German 3 or 5 or 6, or English 27, or Rhetoric 11, or Spanish 1	4
French 1, or German 1 or 4, or English 1 or Spanish 1	4	Orders of Arch. (Arch. 8)	3
Free Hand Drawing (Arch. 20)	3	Military Drill (Mil. 2)	1
Military Drill (Mil. 2)	1	Drill Regulations (Mil. 1)	1
Gymnasium (Phys. Tr. 1, 3)	1	Gymnasium Practice (Phys. Tr. 1, 3)	1
Total	18	Total	19

Second Year

First Semester — *Subject*	S. H.	Second Semester — *Subject*	S. H.
Applied Mech. (T. & A. M. 4)	4	Strength of Materials (T. & A. M. 5)	4
Wood Construction (Arch. 2)	3	Masonry and Metal Construction (Arch. 3)	3
Architectural Perspective (Arch. 14)	2	Requirements and Planning of Buildings (Arch. 15)	3
Perspective Sketch. (Arch. 35)	1	Physics Lectures (Phys. 2a)	2
Physics Lectures (Phys. 2a)	2	Physics Laboratory (Phys. 2b)	2
Physics Laboratory (Phys. 2b)	2	Rhetoric 1	3
Rhetoric 1	3	Monthly Problems (Arch.)	9½
Monthly Problems (Arch. 9)	½	Military Drill (Mil. 2)	1
Military Drill (Mil. 2)	1	Total	18½
Total	18½		

Third Year

First Semester — *Subject*	S. H.	Second Semester — *Subject*	S. H.
History of Architecture (Arch. 6)	4	History of Architecture (Arch. 6)	4
Architectural Seminary (Arch. 11)	1	Architectural Seminary (Arch. 11)	1
Sanitary Construction (Arch. 4)	2	Historic Ornament (Arch. 7)	2
Architectural Comp. (Arch. 18)	3	Graphic Statics and Roofs (Arch. 5)	4
Water Coloring Rendering (Arch. 32)	1	Architectural Designing (Arch. 17)	3
Rendering Ornament (Arch. 33)	2	Working Drawings (Arch. 10)	2
Economics 2	2	Residence Design (Arch. 16)	2
Clay Modeling (A. and D. 8a)	2	Monthly Problems (Arch. 9)	½
Monthly Problems (Arch. 9)	½	Total	18½
Total	17½		

Fourth Year

First Semester — *Subject*	S. H.	Second Semester — *Subject*	S. H.
Design of Ornament (Arch. 25)	3	Superintendence, Estimates, etc. (Arch. 12)	3
Heating and Ventil. (Arch. 13)	4	Mural Decoration (Arch. 28)	2
Renaissance Design (Arch. 22)	3	Surveying (Civ. Eng'g 10)	2
Medieval Design (Arch. 23)	3	Electric Lighting (El. Eng'g 9)	1
Mural Decoration (Arch. 28)	2	Architectural Readings, French, German, or Eng. (Arch. 31)	1
Architectural Readings, French, German, or Eng. (Arch. 31)	1	Monthly Problems (Arch. 9)	½
Monthly Problems (Arch. 9)	½	Thesis (Arch. 30)	6
Theisis (Arch. 30)		Total	15½
Total	16½		

[1] Semester hours. See General Description of Courses, Part III.

[2] The numbers in parentheses refer to courses in the General Description of Courses, Part III.

Course of Study

Required for Degree of B.S. in Architectural Engineering

First Year

First Semester		Second Semester	
Subject—	S. H.[1]	*Subject*—	S. H.[1]
General Engineering Drawing (G. E. D. 1)[2]	4	Descriptive Geom. (G. E. D. 2)	4
Trigonometry (Math. 4)	2	Analytical Geometry (Math. 6)	5
Advanced Algebra (Math. 2)	3	French 1, or German 3 or 5 or 6, or English 27, or Rhetoric 11, or Spanish 1	4
French 1, or German 1 or 4, or English 1, or Spanish 1	4	Shop Practice (M. E. 1)	3
Shop Practice[3] (M. E. 1)	3	Military Drill (Mil. 2)	1
Military Drill (Mil. 2)	1	Drill Regulations (Mil. 1)	1
Gymnasium (Phys. Tr. 1, 3)	1	Gymnasium (Phys. Tr. 1, 3)	1
Total	18	Total	19

Second Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Differential Calculus (Math. 7)	5	Integral Calculus (Math. 9)	3
Wood Construction (Arch. 2)	3	Masonry and Metal Construction (Arch. 3)	3
Architectural Perspective (Arch. 14)	2	Requirements and Planning of Buildings (Arch. 15)	3
Physics Lectures (Phys. 1)	3	Physics Lectures (Phys. 1)	2
Physics Laboratory (Phys. 3)	2	Phyics Laboratory (Phys. 3)	2
Rhetoric 1	3	Rhetoric 1	3
Military Drill (Mil. 2)	1	Analytical Mech. (T. & A. M. 7)	3
		Military Drill (Mil. 2)	1
Total	19	Total	20

Third Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Analytical Mechanics (T. & A. M. 8)	2½	Hydraulics (T. & A. M. 10)	3
Resist. of Mat's (T. & A. M. 9)	3½	Graphic Statics and Roofs (Arch. 5)	4
Eng'g Materials (T. & A. M. 6)	1	Working Drawings (Arch. 10)	2
Hist. of Architecture (Arch. 6)	4	History of Arch. (Arch. 6)	4
Architectural Sem. (Arch. 11)	1	Steam Engines and Boilers (M. E. 11)	3
Sanitary Construction (Arch. 4)	2	Economics 2	2
Chemistry 1[4]	4		
Total	18	Total	18

Fourth Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Architectural Eng. (Arch. 19)	3	Architectural Eng. (Arch. 19)	3
Bridge Analysis (C. E. 12)	2	Bridge Design (C. E. 14a)	3
Bridge Details (C. E. 13)	3	Superintendence, Estimates, etc. (Arch. 12)	3
Heating and Ventilation (Arch. 13)	4	Surveying (C. E. 10)	2
Architectural Readings (Arch. 31)	1	Electric Lighting (E. E. 9)	1
Arch. Eng. Seminary (Arch. 34)	1	Architectural Readings (Arch. 31)	1
Thesis (Arch. 30)	1	Thesis (Arch. 30)	2
Total	15	Total	15

[1] Semester hours. See General Description of Courses, Part III.

[2] The numbers in parentheses refer to courses in the General Description of Courses, Part III.

[3] Free Hand Drawing (Arch. 20), may be substituted first semester, and Orders of Architecture (Arch. 8), second semester for M. E. 1.

[4] Students who have offered chemistry for admission should take Elec. Eng'g 2 and 26 or Elec. Eng'g 16.

Course of Study

Required for the Degree of B.S. in Architectural Decoration

First Year

First Semester — *Subject*	S. H.[1]
General Engineering Drawing (G. E. D. 1)	4
Freehand Drawing (Arch. 20)	3
Trigonometry (Math. 4)	2
Advanced Algebra (Math. 2)	3
French 1, German 1 or 4, or English 1, or Spanish 1	4
Military Drill (Mil 2)	1
Gynasium (Phys. Tr. 1, 3)	1
Total	18

Second Semester — *Subject*	S. H.[1]
Descriptive Geometry (G. E. D. 2)	4
Analytical Geometry (Math. 6)	5
Orders of Arch. (Arch. 8)	3
French 1, German 3 or 5 or 6, or English 27, or Rhet. 11, or Spanish 1	4
Military Drill (Mil. 2)	1
Drill Regulations (Mil 1)	1
Gymnasium (Phys. Tr. 1, 3)	1
Total	19

Second Year

First Semester — *Subject*	S. H.
Wood Construction (Arch. 2)	3
Perspective (Arch. 14)	2
Rhetoric 1	3
Physics Lectures (Phys. 2a)	2
Physics Laboratory (Phys. 2b)	2
Drawing from Antique (A. D. 3)	3
Bases of Ornament (Arch. 36)	2
Monthly Problems (Arch. 9)	½
Military Drill (Mil. 2)	1
Total	18½

Second Semester — *Subject*	S. H.
Monumental Inscriptions (Arch. 37)	1
Physics Lectures (Phys. 2a)	2
Physics Laboratory (Phys. 2b)	2
Rhetoric 1	3
Drawing from Antique (A. D. 3)	3
Bases of Ornament (Arch. 36)	2
Analysis of Pattern (Arch. 40)	3
Monthly Problems	½
Military Drill (Mil. 2)	1
Total	17½

Third Year

First Semester — *Subject*	S. H.
History of Arch. (Arch. 6)	4
Architectural Seminary (Arch. 11)	1
Architectural Comp. (Arch. 18)	3
Color Problems (Arch. 41)	2
Design of Ornament (Arch. 25)	3
Modeling (A. D. 8a)	2
History of Art (A. D. 19)	1
Monthly Problems (Arch. 9)	½
Total	16½

Second Semester — *Subject*	S. H.
History of Arch. (Arch. 6)	4
Architectural Seminary (Arch. 11)	1
Architectural Laboratory (Arch. 38)	2
Historic Ornament (Arch. 7)	2
Working Drawings (Arch. 10)	2
Architectural Design (Arch. 17)	3
Residence Design (Arch. 16)	2
Monthly Problems (Arch. 9)	½
History of Art (A. D. 19)	1
Total	17½

Fourth Year

First Semester — *Subject*	S. H.
Architectural Readings (Arch. 31)	1
Mural Decoration (Arch. 28)	2
Architectural Laboratory (Arch. 38)	3
Renaissance Design (Arch. 22)	3
Mediæval Design (Arch. 23)	3
Monthly Problems (Arch. 9)	½
History 1	4
Thesis (Arch. 30)	1
Total	17½

Second Semester — *Subject*	S. H.
Architectural Readings (Arch. 31)	1
Theory and Criticism (Arch. 39)	1
Mural Decoration (Arch. 28)	2
Architectural Laboratory (Arch. 38)	3
Monthly Problems (Arch. 9)	½
History 1	4
Thesis (Arch. 30)	5
Total	16½

[1] Semester hours. See General Description of Courses, Part III.

Course of Study

Required for the Degree of B.S. in Civil Engineering

First Year

First Semester — Subject	S. H.[1]	Second Semester — Subject	S. H.[1]
General Engineering Drawing (G. E. D. 1)[2]	4	Descriptive Geom. (G. E. D. 2)	4
Trigonometry (Math. 4)	2	Analytical Geometry (Math. 6)	5
Advanced Algebra (Math. 2)	3	French 1, or German 3 or 5 or 6, or English 27, or Rhetoric 11, or Spanish 1	4
French 1, or German 1 or 4, or English 1, or Spanish 1	4	Shop Practice (M. E. 1)	3
Shop Practice (M. E. 1)	3	Military Drill (Mil. 2)	1
Military Drill (Mil. 2)	1	Drill Regulations (Mil. 1)	1
Gymnasium (Phys. Tr. 1, 3)	1	Gymnasium (Phys. Tr. 1, 3)	1
Total	18	Total	19

Second Year

First Semester — Subject	S. H.	Second Semester — Subject	S. H.
Surveying (C. E. 21)	5	Topograph Survey (C. E. 22)	4
Differential Calculus (Math. 7)	5	Railroad Curves (C. E. 23)	1
Physics Lectures (Phys. 1)	3	Integral Calculus (Math. 9)	3
Physics Laboratory (Phys. 3)	2	Physics Lectures (Phys. 1)	2
Rhetoric 1	3	Physics Laboratory (Phys. 3)	2
Military Drill (Mil. 2)	1	Rhetoric 1	3
		Anal. Mech. (T. & A. M. 7)	3
		Military Drill (Mil. 2)	1
Total	19	Total	19

Third Year

First Semester — Subject	S. H.	Second Semester — Subject	S. H.
Railroad Location, Construction and Maintenance (C. E. 4)	5	Graphic Statics (C. E. 20)	2
Analytical Mechanics (T. & A. M. 8)	2½	Hydraulics (T. & A. M. 10)	3
Resistance of Materials (T. & A. M. 9)	3½	Road Engineering (C. E. 1)	2
Chemistry 1[3]	4	Astronomy 3 and 6, or Geology 13	5
Engineering Materials (T. & A. M. 6)	1	Steam Engines and Boilers (M. E. 11)	3
		Economics 2	2
Total	16	Total	17

Fourth Year

First Semester — Subject	S. H.	Second Semester — Subject	S. H.
Masonry Construction (C. E. 5)	5	Bridge Design (C. E. 14)	5
Bridge Analysis (C. E. 12)	2	Advanced Bridge Analysis (C. E. 15)	2
Bridge Details (C. E. 13)	3	Masonry and Reinforced Concrete Design (C. E. 6)	2
Metal Structures (C. E. 24)	1	Engineering Contracts and Specifications (C. E. 16)	2
Water Supply Eng'g (M. & S. E. 2)	4	Seminary (C. E. 25)	1
Tunneling (C. E. 18)	1	Sewerage (M. & S. E. 3)	3
Thesis (C. E. 30)	1	Thesis (C. E. 30)	2
Total	17	Total	17

[1] Semester hours. See General Description of Courses, Part III.

[2] The numbers in parentheses refer to courses in the General Description of Courses, Part III.

[3] Students who have offered chemistry for admission must take Electrical Engineering 2 and 26 instead of Chemistry 1; and students who have received advance credit for Chemistry 1 may take the above subjects in place of chemistry.

Course of Study

Required for the Degree of B.S. in Electrical Engineering

First Year

First Semester — Subject	S. H.[1]	Second Semester — Subject	S. H.[1]
General Engineering Drawing (G. E. D. 1)[2]	4	Descriptive Geom. (G. E. D. 2)	4
Trigonometry (Math. 4)	2	Analytical Geometry (Math. 6)	5
Advanced Algebra (Math. 2)	3	French 1, or German 3 or 5, or 6, or English 27, or Rhetoric 11, or Spanish 1	4
French 1, or German 1 or 4, or English 1, or Spanish 1	4	Shop Practice (M. E. 1)	3
Shop Practice (M. E. 1)	3	Military Drill (Mil. 2)	1
Military Drill (Mil. 2)	1	Drill Regulations (Mil. 1)	1
Gymnasium (Phys. Tr. 1, 3)	1	Gymnasium (Phys. Tr. 1, 3)	1
Total	18	Total	19

Second Year

First Semester — Subject	S. H.	Second Semester — Subject	S. H.
Differential Calculus (Math. 7)	5	Integral Calculus (Math. 9)	3
Machine Shop (M. E. 2)	2½	Machine Shop (M. E. 2)	2½
Machine Design (M. E. 4)	2½	Mechanism (M. E. 5)	2½
Physics Lectures (Phys. 1)	3	Physics Lectures (Phys. 1)	2
Physics Laboratory (Phys. 3)	2	Physics Laboratory (Phys. 3)	2
Rhetoric 1	3	Rhetoric 1	3
Military Drill (Mil. 2)	1	Analytical Mechanics (T. & A. M. 7)	3
		Military Drill (Mil. 2)	1
Total	19	Total	19

Third Year

First Semester — Subject	S. H.	Second Semester — Subject	S. H.
Dynamo Elec. Mach'y (E. E. 16)	4	Alternating Currents (E. E. 5)	4
Electrical and Magnetic Measurements (Phys. 4)	2	Electrical and Magnetic Measurements (Phys. 4)	2
Anal. Mech. (T. & A. M. 8)	2½	Electrical Engineering Laboratory (E. E. 22)	2
Resistance of Materials (T. & A. M. 9)	3½	Hydraulics (T. & A. M. 10)	3
Eng'g Materials (T. & A. M. 6)	1	Surveying (C. E. 10)	2
Chemistry 1[3]	4	Steam Engineering (M. E. 23)	3
Total	17	Total	16

Fourth Year

First Semester — Subject	S. H.	Second Semester — Subject	S. H.
Advanced Alternating Currents (E. E. 14)	3	Power Plants (E. E. 11)	3
Electrical Distribution (E. E. 15)	3	Electrical Engineering Laboratory (E. E. 24)	2
Electrical Engineering Laboratory (E. E. 23)	3	Power Plant Design (E. E. 33)	1
Electrical Design (E. E. 32)	2	Seminary (E. E. 13)	1
Seminary (E. E. 13)	1	Mechanical Engineering Laboratory (M. E. 13)	3
Thermodynamics (M. E. 15)	3	Economics (Econ. 16)	2
Economics (Econ. 2)	2	Thesis (E. E. 35)	3
		Electives[4]	2
Total	17	Total	17

[1] Semester hours. See General Description of Courses, Part III.

[2] The numbers in parentheses refer to courses in the General Description of Courses, Part III.

[3] Students who have offered the equivalent of Chemistry 1 for admission should take Chemistry 2 and other courses to make four semester hours.

[4] Electives amounting to two semester hours should be chosen from the following: Elec. Eng. 4, Elec. Eng. 12, R'y. Eng. 61.

Course of Study

Required for the Degree of B.S. in Mechanical Engineering

First Year

First Semester — *Subject*	S. H.[1]
Gen. Eng'g Drawing (G. E. D. 1)[2]	4
Trigonometry (Math. 4)	2
Advanced Algebra (Math. 2)	3
French 1, or German 1 or 4, or English 1, or Spanish 1	4
Shop Practice (M. E. 1)	3
Military Drill (Mil. 2)	1
Gymnasium (Phys. Tr. 1, 3)	1
Total	18

Second Semester — *Subject*	S. H.[1]
Description Geometry (G. E. D. 2)	4
Analytical Geometry (Math. 6)	5
French 1, or German 5 or 6 or English 27, or Rhetoric 11, or Spanish 1	4
Shop Practice (M. E. 1)	3
Military Drill (Mil. 2)	1
Drill Regulations (Mil. 1)	1
Gymnasium (Phys. Tr. 1, 3)	1
Total	19

Second Year

First Semester — *Subject*	S. H.
Differential Calculus (Math. 7)	5
Machine Shop (M. E. 2)	2½
Machine Design (M. E. 4)	2½
Physics Lectures (Phys. 1)	3
Physics Laboratory (Phys. 3)	2
Rhetoric 1	3
Military Drill (Mil. 2)	1
Total	19

Second Semester — *Subject*	S. H.
Integral Calculus (Math. 9)	3
Machine Shop (M. E. 2)	2½
Mechanism (M. E. 5)	2½
Physics Lectures (Phys. 1)	2
Physics Laboratory (Phys. 3)	2
Rhetoric 1	3
Anal. Mechanics (T. & A. M. 7)	3
Military Drill (Mil. 2)	1
Total	19

Third Year

First Semester — *Subject*	S. H.
Analytical Mechanics (T. & A. M. 8)	2½
Resistance of Materials (T. & A. M. 9)	3½
Engineering Mat'ls (T. & A. M. 6)	1
Steam Engineering (M. E. 23)	3
Chemistry 1[3] or Elec. Eng'g (E. E. 16)	4
Graphic Static of Mech. (M. E. 18)	2
Seminary (M. E. 29)	1
Total	17

Second Semester — *Subject*	S. H.
Thermodynamics (M. E. 7)	3
Power Measurements (M. E. 3)	3
Engineering Chem. (Chem. 16) or Graphic Kinetics (M. E. 25)	3
Surveying (C. E. 10)	2
Elec. Eng'g (E. E. 1) or E. E. 25)	2
Hydraulics (T. & A. M. 10)	3
Seminary (M. E. 29)	1
Total	17

Fourth Year

First Semester — *Subject*	S. H.
Heat Engines (M. E. 6)	3
Mechanics of Mach'y (M. E. 8)	2
Adv. Mach. Design (M. E. 9)	3
Mechanical Lab'y (M. E. 12)	3
Elect. Eng'g (E. E. 6) or (E. E. 21)	2
Economics 2	2
Seminary (M. E. 19)	1
Total	16

Second Semester — *Subject*	S. H.
Mechanics of Mach'y (M. E. 8)	3
Adv. Mach. Design (M. E. 9)	3
Ry. Eng'g Lab'y (Ry. E. 11)	1
Estimates (M. E. 10)	1
Seminary (M. E. 19)	1
Economics 16	2
Thesis (M. E. 33)	3
Elective	2
Total	16

[1] Semester hours. See General Description of Courses, Part III.

[2] The numbers in parentheses refer to courses in the General Description of Courses, Part III.

[3] Students who have had the equivalent of Chem. 1 take in succession E. E. 16, E. E. 25, E. E. 6. Students who have not had chemistry must elect Chem. 1 and follow with E. E. 1 and E. E. 21.

Course of Study

Required for the Degree of B.S. in Municipal and Sanitary Engineering

First Year

First Semester		Second Semester	
Subject—	S. H.[1]	*Subject*—	S. H.[1]
Gen'l Eng'g Draw. (G. E. D. 1)[2]	4	Descriptive Geom. (G. E. D. 2)	4
Trigonometry (Math. 4)	2	Analytical Geometry (Math. 6)	5
Advanced Algebra (Math. 2)	3	French 1, or German 3 or 5 or 6, or English 27, or Rhetoric 11, or Spanish 1	4
French 1, or German 1 or 4, or English 1, or Spanish 1	4	Shop Practice (M. E. 1)	3
Shop Practice (M. E. 1)	3	Military Drill (Mil. 2)	1
Military Drill (Mil. 2)	1	Drill Regulations (Mil. 1)	1
Gymnasium (Phys. Tr. 1, 3)	1	Gymnasium (Phys. Tr. 1, 3)	1
Total	18	Total	19

Second Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Surveying (C. E. 21)	5	Topograph Surveying (C. E. 22)	4
Differential Calculus (Math. 7)	5	Railroad Curves (C. E. 23)	1
Physics Lectures (Phys. 1)	3	Integral Calculus (Math. 9)	3
Physics Laboratory (Phys. 3)	2	Physics Lectures (Phys. 1)	2
Rhetoric 1	3	Physics Laboratory (Phys. 3)	2
Military Drill (Mil. 2)	1	Rhetoric 1	3
		Analyt. Mech. (T. & A. M. 7)	3
		Military Drill (Mil. 2)	1
Total	19	Total	19

Third Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Railroad Location and Construction (C. E. 4a)	3	Hydraulics (T. & A. M. 10)	3
Analytical Mechanics (T. & A. M. 8)	2½	Road Engineering (C. E. 1)	2
Resistance of Materials (T. & A. M. 9)	3½	Graphic Statics (C. E. 20)	2
Engineering Materials (T. & A. M. 6)	1	Steam Engines and Boilers (M. E. 11)	3
Bacteriology (M. & S. E. 5a)	2	Chemistry 3b, 10b	5
Chemistry 1	4	Electrical Engineering 1	2
Total	16	Total	17

Fourth Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Water Supply Eng'g (M. & S. E. 2)	4	Sewerage (M. & S. E. 3)	3
Water Purification, Sewage Disposal, and General Sanitation (M. & S. E. 6a)	2	Water Purification, Sewage Disposal, and General Sanitation (M. & S. E. 6b)	3
Masonry Construct'n (C. E. 5)	5	Bridge Design (C. E. 14a)	3
Bridge Analysis (C. E. 12)	2	Engineering Contracts and Specifications (C. E. 16)	2
Bridge Details (C. E. 13)	3	Mechanical Engineering Laboratory (M. E. 13)	2
Electrical Engineering 28	1	Economics 2	2
		Thesis (M. & S. E. 30)	2
Total	17	Total	17

[1]Semester hours. See General Description of Courses, Part III.

[2]The numbers in parentheses refer to courses in the General Description of Courses, Part III.

Course of Study

Required for the Degree of B.S. in Railway Civil Engineering

First Year

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.[1]	*Subject*—	S. H.[1]
General Engineering Drawing, (G. E. D. 1)[2]	4	Descriptive Geometry G. E. D. 2)	4
Trigonometry (Math. 4)	2	Analytical Geometry (Math. 6)	5
Advanced Algebra (Math. 2)	3	French 1, or German 3 or 5 or 6, or English 27, or Rhetoric 11, or Spanish 1	4
French 1, or German 1 or 4, or English 1, or Spanish 1	4	Shop Practice (M. E. 1)	3
Shop Practice (M. E. 1)	3	Military Drill (Mil. 2)	1
Military Drill (Mil. 2)	1	Drill Regulations (Mil. 1)	1
Gymnasium (Phys. Tr. 1, 3)	1	Gymnasium (Phys. Tr. 1, 3)	1
Total	18	Total	19

Second Year

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.	*Subject*—	S. H.
Surveying (C. E. 21)	5	Topograph Survey (C. E. 22)	4
Differential Calculus (Math. 7)	5	Railroad Curves (C. E. 23)	1
Physics Lectures (Phys. 1)	3	Integral Calculus (Math. 9)	3
Physics Laboratory (Phys. 3)	2	Physics Lectures (Phys. 1)	2
Rhetoric 1	3	Physics Laboratory (Phys. 3)	2
Military Drill (Mil. 2)	1	Rhetoric 1	3
		Analytical Mechanics (T. & A. M. 7)	3
		Military Drill (Mil. 2)	1
Total	19	Total	19

Third Year

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.	*Subject*—	S. H.
Railroad Location, Construction and Maintenance (C. E. 4)	5	Railway Yards and Terminals (Ry. E. 31)	1
Analytical Mechanics (T. & A. M. 8)	2½	Railway Structures (Ry. E. 32)	1
Resistance of Materials (T. & A. M. 9)	3½	Graphic Statics (C. E. 20)	2
Engineering Materials (T. & A. M. 6)	1	Hydraulics (T. & A. M. 10)	3
Chemistry 1[3]	4	Steam Engines and Boilers (M. E. 11)	3
		Astronomy 3 and 6, or Geol. 13	5
		Prin. of Economics (Econ. 2)	2
Total	16	Total	17

Fourth Year

FIRST SEMESTER		SECOND SEMESTER	
Subject—	S. H.	*Subject*—	S. H.
Economic Theory of Railway Location (Ry. E. 33)	4	Railway Operation (Ry. E. 34)	4
Railway Management (Econ. 13)	3	Signal Engineering (Ry. E. 35)	1
Masonry Construction (C. E. 5)	5	Seminary (Ry. E. 50)	1
Bridge Design (C. E. 12)	2	Railway Systems (Econ. 14)	3
Metal Structures (C. E. 24)	1	Bridge Design (C. E. 14a)	3
Tunneling (C. E. 18)	1	Engineering Contracts and Specifications (C. E. 16)	2
Thesis (Ry. E. 60)	1	Thesis (Ry. E. 60)	2
Total	17	Total	16

[§]Differs from course in civil engineering only after first semester of third year.

[1]Semester hours. See General Description of Courses, Part III.

[2]The numbers in parentheses refer to courses in the General Description of Courses, Part III.

[3]Students who have offered Chemistry for admission must take Electrical Engineering Laboratory (Electrical Eng'g 2 and 26) instead of Chemistry 1; and students who have received advanced credit for Chemistry 1 may take the above subjects in place of chemistry.

Course of Study

Required for the Degree of B.S. in Railway Electrical Engineering

First Year

First Semester		Second Semester	
Subject—	S. H.[1]	*Subject*—	S. H.[1]
General Engineering Drawing (G. E. D. 1)[2]	4	Descrip. Geom. (G. E. D. 2)	4
Trigonometry (Math. 4)	2	Analytical Geometry (Math. 6)	5
Advanced Algebra (Math. 2)	3	French 1, or German or 3 or 5 or 6, or English 27, or Rhetoric 11, or Spanish 1	4
French 1, or German 1 or 4, or English 1, or Spanish 1	4	Shop Practice (M. E. 1)	3
Shop Practice (M. E. 1)	3	Military Drill (Mil. 2)	1
Military Drill (Mil. 2)	1	Drill Regulations (Mil. 1)	1
Gymnasium (Phys. Tr. 1, 3)	1	Gymnasium (Phys. Tr. 1, 3)	1
Total	18	Total	19

Second Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Machine Shop (M. E. 2)	2½	Machine Shop (M. E. 2)	2½
Machine Design (M. E. 4)	2½	Mechanism (M. E. 5)	2½
Differential Calculus (Math. 7)	5	Integral Calculus (Math. 9)	3
Physics Lectures (Phys. 1)	3	Physics Lectures (Phys. 1)	2
Physics Laboratory (Phys. 3)	2	Physics Laboratory (Phys. 3)	2
Rhetoric 1	3	Rhetoric 1	3
Military Drill (Mil. 2)	1	Anal. Mech. (T. & A. M. 7)	3
		Military Drill (Mil. 2)	1
Total	19	Total	19

Third Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Dynamo-Electric Machin'y (E. E. 16)	4	Alternating Currents (E. E. 5)	4
Electrical & Magnetic Measurements (Phys. 4)	2	Electrical Engineering Laboratory (E. E. 22)	2
Analy. Mech. (T. & A. M. 8)	2½	Electrical & Magnetic Measurements (Phys. 4)	2
Resistance of Materials (T. & A. M. 9)	3½	Hydraulics T. & A. M. 10)	3
Engineering Materials (T. & A. M. 6)	1	Surveying (C. E. 10)	2
Chemistry 1[3]	4	Steam Engineering (M. E. 23)	3
Total	17	Total	16

Fourth Year

First Semester		Second Semester	
Subject—	S. H.	*Subject*—	S. H.
Railway Laboratory & Road Tests (Ry. E. 62)	2	Traction (Ry. E. 61)	2
Locomotive Road Tests (Ry. E. 4)	3	Railway Laboratory & Road Tests (Ry. E. 63)	2
Seminary (Ry. E. 10)	1	Dynamometer Car Tests (Ry. E. 8)	1
Advanced Alternating Currents (E. E. 14)	3	Seminary (Ry. E. 10)	1
Electrical Distrib. (E. E. 15)	3	Power Plants (E. E. 11)	3
Thermodynamics (M. E. 15)	3	Power Plant Design (E. E. 33)	1
Economics 2	2	Economics 16	2
		Thesis (Ry. E. 30)	3
Total	17	Total	15

*Differs from course in electrical engineering in the fourth year only.

[1]Semester hours. See General Description of Courses. Part III.

[2]The numbers in parentheses refer to the courses in the General Description of Courses, Part II.

[3]Students who have offered the equivalent of Chemistry 1 for admission should take Chemistry 2 and elect other courses to make up the 4 semester hours.

Course of Study

Required for the Degree of B.S. in Railway Mechanical Engineering

First Year

First Semester — Subject	S. H.[1]	Second Semester — Subject	S. H.[1]
General Engineering Drawing (G. E. D. 1)[2]	4	Descriptive Geometry (G. E. D. 2)	4
Trigonometry (Math. 4)	2	Analytical Geom. (Math. 6)	5
Advanced Algebra (Math. 2)	3	French 1, or German 3 or 5 or 6, or English 27, or Rhetoric 11, or Spanish 1	4
French 1, or German 1 or 4, or English 1, or Spanish 1	4	Shop Practice (M. E. 1)	3
Shop Practice (M. E. 1)	3	Military Drill (Mil. 2)	1
Military Drill (Mil. 2)	1	Drill Regulations (Mil. 1.)	1
Gymnasium (Phys. Tr. 1, 3)	1	Gymnasium (Phys. Tr. 1, 3)	1
Total	18	Total	19

Second Year

First Semester — Subject	S. H.	Second Semester — Subject	S. H.
Machine Shop (M. E. 2)	2½	Machine Shop (M. E. 2)	2½
Machine Design (M. E. 4)	2½	Mechanism (M. E. 5)	2½
Differential Calculus (Math. 7)	5	Integral Calculus (Math. 9)	3
Physics Lectures (Phys. 1)	3	Physics Lectures (Phys. 1)	2
Physics Laboratory (Phys. 3)	2	Physics Laboratory (Phys. 3)	2
Rhetoric 1	3	Rhetoric	3
Military Drill (Mil. 2)	1	Anal. Mechanics (T. & A. M. 7)	3
		Military Drill (Mil. 2)	1
Total	19	Total	19

Third Year

First Semester — Subject	S. H.	Second Semester — Subject	S. H.
Steam Engineering (M. E. 23)	3	Thermodynamics (M. E. 7)	3
Graph. Stat. of Mech. (M. E. 18)	2	Power Measurements (M. E. 3)	3
Seminary (M. E. 29)	1	Eng'g Chem. (Chem. 16) or Graphic Kinetics (M. E. 25)	3
Anal. Mechanics (T. & A. M. 8)	2½	Seminary (M. E. 29)	1
Resistance of Materials (T. & A. M. 9)	3½	Hydraulics (T. & A. M. 10)	3
Eng'g Materials (T. & A. M. 6.)	1	Surveying (C. E. 10)	2
Chemistry 13 or Electrical Engineering 16	4	Electrical Engineering (E. E. 25 or E. E. 1)	2
Total	17	Total	17

Fourth Year

First Semester — Subject	S. H.	Second Semester — Subject	S. H.
Locomotive Engines (Ry. E. 1)	2	Shop and Auxiliary Equipment (Ry. E. 5)	1
Locomotive Design (Ry. E. 2)	3	Advanced Design (Ry. E. 7)	3
Loco. Road Tests (Ry. E. 4)	3	Traction (Ry. E. 61)	2
Shop Systems (Ry. E. 3)	1	Dyna. Car Tests (Ry. E. 8)	1
Seminary (Ry. E. 10)	1	Seminary (Ry. E. 10)	1
Mech. of Machinery (M. E. 8)	2	Mech. of Mach. (M. E. 8)	3
Electrical Engineering (E. E. 6 or E. E. 21)	2	Economics 16	2
Economics 2	2	Thesis (Ry. E. 30)	3
Total	16	Total	16

§Differs from course in mechanical engineering in the fourth year only.

[1]Semester hours. See General Description of Courses, Part III.

[2]The numbers in parentheses refer to the courses in the General Description of Courses, Part III.

[3]Students who have not offered the equivalent of Chemistry 1 for admission must take it in course, followed by Electrical Engineering 1 and Electrical Engineering 21. Those who have had Chemistry 1 take in succession Electrical Engineering 16, 25 and 6.

COLLEGE OF AGRICULTURE

FACULTY

EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT

EUGENE DAVENPORT, M.AGR., LL.D., DEAN

In Agronomy—

CYRIL GEORGE HOPKINS, Ph.D., Professor.

LOUIS HENRIE SMITH, Ph.D., Assistant Professor, Plant Breeding.

JEREMIAH GEORGE MOSIER, B.S., Assistant Professor, Soil Physics.

JAMES HARVEY PETTIT, Ph.B., Assistant Professor, Soil Fertility.

ALBERT NASH HUME, M.S., Associate, Crop Production.

FRED RANDALL CRANE, M.S., Instructor, Farm Mechanics.

CLIFFORD WILLIS, M.S., Instructor, Soil Physics.

ORLO DORR CENTER, B.S., Instructor, Crop Production.

WILLIAM GEORGE ECKHARDT, B.S., Assistant, Soil Fertility.

LEONARD HEGNAUER, B.S., Assistant, Crops.

AXEL FERDINAND GUSTAFSON, B.S., Assistant, Soil Physics.

In Animal Husbandry—

HERBERT WINDSOR MUMFORD, B.S., Professor.

HARRY SANDS GRINDLEY, Sc.D., Professor, Animal Chemistry.

PHILIP BOVIER HAWK, Ph.D., Professor, Physiological Chemistry.

WILLIAM DIETRICH, M.S., Assistant Professor, Swine Husbandry.

LOUIS DIXON HALL, M.S., Associate, Animal Husbandry.

RUFUS CHAUNCEY OBRECHT, M.S., Associate, Horse Husbandry.

WALTER CASTELLA COFFEY, B.S., Associate, Sheep Husbandry.

HARRY ORSON ALLISON, B.S., Instructor, Animal Husbandry.

In Dairy Husbandry—

WILBER JOHN FRASER, M.S., Professor.

CARL EMIL LEE, B.S., Assistant Professor, Dairy Manufactures.

Cassius Clay Hayden, B.S.A., Associate, Dairy Husbandry.
Nelson William Hepburn, B.S., Assistant, Dairy Manufactures.

In Horticulture—

Joseph Cullen Blair, M.S.A., Professor.
Charles Spencer Crandall, M.S., Associate Professor, Pomology.
John William Lloyd, M.S.A., Assistant Professor, Olericulture.
Alanson Phelps Wyman, B.S.A., Assistant Professor, Landscape Gardening.
Bethel Stewart Pickett, M.S., Instructor, Pomology.

In Thremmatology—

Eugene Davenport, M.Agr., LL.D., Professor.

In Veterinary Science—

Donald McIntosh, V.S., Professor.

In Household Science—

Isabel Bevier, Ph.M., Professor.
Susannah Usher, B.S., Assistant Professor.
Charlotte Mitchell Gibbs, A.B., Assistant, Textiles.
Jessie Eleaine Morrow, B.S., Assistant.
Helena Maude Pincomb, B.S., Assistant.

In Agricultural College Extension—

Fred Henry Rankin, Superintendent.
Daniel Otis Barto, B.S., Instructor, Secondary School Agriculture.

The College of Agriculture offers an education designed to fit for the business of farming, and at the same time to furnish a means of culture. This education is, therefore, substantially one-half technical and one-half non-technical. Its end is the training of students to be not only successful farmers, but good citizens.

The technical portion may be chosen from some ninety courses of instruction in soils, crops, animal husbandry, dairy husbandry, horticulture, veterinary science. Of the non-technical portion, the sciences most nearly related to agriculture form about one-half, and the remaining portion is made up of language, literature, and electives chosen from any subjects taught in the University. Through the department of household science, a variety of courses is offered especially treating of the affairs of the home. The College also offers elementary and professional courses in the art of landscape gardening.

This college therefore offers three courses leading to graduation with the degree of Bachelor of Science:

1. Agricultural course.
2. General course in Household Science.
3. Course in Landscape Gardening.

ADMISSION

Candidates for a degree may be admitted as in the case of the other Colleges and Schools upon presenting a certificate from a fully accredited high school, as described on page 31, upon examination, or by transfer of credits from some other college or university,[1] the requirements for admission being the same as for admission to the College of Science, as described on page 76.

Admission as Special Students

Until students have announced their intention to work for a degree and have satisfied all entrance requirements, they are known as special students. Any student eighteen years old or over[2], may enter as a special without reference to graduation, electing such work as he is prepared to pursue with profit. To continue as a special student for more than two years it is necessary to secure permission upon formal petition, stating reasons for the request. Any such student, however, who has had less than the entrance requirements in English, is required to take that subject in the University or the Academy until such deficiency is made good.

The person who remains but a short time will therefore follow but a few lines of work. If his preparation is deficient he will be confined to those subjects that require little or no previous preparation. He will also be confined to an amount which he can do thoroughly well, and will thus perform substantially the same grade of work as regular students. As the course is largely elective, credit is given for what is actually achieved.

This plan affords the students with a limited amount of time all the advantages of a short course and at the same time secures a good grade of work in the subjects studied.

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[1] See Page 38.

[2] By special permission a male student may register at sixteen provided he takes at least half of his work in the Academy.

METHODS OF INSTRUCTION

The student of agriculture is brought into close practical contact with his subject. He takes levels, lays tile, tests the draft of tools, traces root systems of corn and other crops, tests germination of seeds, determines the fertility in soils and the effects of different crops and of different rotations upon soil fertility. He does budding, grafting, trimming, and spraying, and works out problems in landscape gardening. He tests milk, operates separators, makes and judges butter and cheese. He studies cuts of meat and samples of wool, judges a great variety of animals, and has practice in diagnosing and treating their diseases. At the same time he has the advantage of the most thorough instruction in the collateral arts and sciences in the same class rooms and laboratories as other students of the university. In the later portions of the course the student comes into intimate relations with the work of the Agricultural Experiment Station, due to the fact that a large part of his instruction is under the personal charge of those who are actually doing the research work of the station.

EQUIPMENT

The college possesses extensive equipment and facilities for instruction in crop production, soil physics, soil fertility, types and breeds of animals, animal diseases, dairy manufactures, orcharding, small fruit culture, landscape gardening, and in the various phases of household science and management.

Added to this are exceptional opportunities for contact with the extensive research work of the Agricultural Experiment Station, especially along lines of crop production, soil fertility, orchard investigation, live stock and dairy methods.

The entire work of both College and Station is divided into distinct lines each in charge of a single person who devotes his entire time to the interest he represents, a plan that not only makes research more effective, but instruction more specific and valuable.

REQUIREMENTS FOR GRADUATION

The conditions of graduation are the same as for the other colleges of the University—130 credit hours, including certain prescribed subjects as explained in the following pages.

Agriculture Course

This course is designed to fit young men for the business of farming and the relations of country life. Following are the conditions to be observed by prospective graduates:

Prescribed Subjects[1]

Agronomy 6 or 7, 9, 12; 12½ hours.
Animal Husbandry 7; 2½ hours.[2]
Botany 12; 1 hour.[3]
Botany or Zoology; 10 hours.[4]
Chemstry 1, 2, 3, 13a; 15 hours.
Dairy Husbandry 1; 3 hours.[5]
Economics 2; 2 hours.
Entomology 4; 2½ hours.
Geology 11; 1 hour.[6]
Horticulture 1, 10; 8 hours.
Household Science 8; 1 hour.
Library Science 12; 2 hours.
Military 1, 2; 5 hours.
Physical Training 1, 3 or 7, 9; 2 or 3 hours.
Rhetoric 1; 6 hours.
Thremmatology 1; 5 hours.

Electives

List A.—Animal Husbandry 1 to 5, 10 to 14, 16 to 21; 24½ hours.

Dairy Husbandry 2; 2½ hours.

List B.—English 1 to 16; 3 to 8 hours.

Rhetoric 3; 4 to 8 hours.

List C.—Agronomy 1, 2 to 5, 7, 8, 10, 11, 13 to 18; 1 to 63 hours.

Animal Husbandry 1 to 5, 10 to 14, 16 to 21; 1 to 43 hours.

Dairy Husbandry 1 to 9, 11, 12; 2½ to 40 hours.

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[1]Students not offering three units in foreign language for admission will take 16 credit hours in foreign language in the University as a condition of graduation, or in lieu thereof 8 credit hours of English in addition to the standard requirments and 8 hours of economics or of history.

[2]See thremmatology and elective list A.

[3]Lectures and demonstrations upon bacteria and allied organisms not required of students having credits in botany.

[4]This means 10 hours of botany or 10 hours of zoology, not including the botany and entomology specified in this list.

[5]Not required of students specializing in dairy husbandry.

[6]As prerequisite to Agronomy 9.

Horticulture 2 to 9, 11 to 15, 17 to 22, 24; 2 to 85½ hours.
Veterinary Science 2, 4, 5; 5 to 20 hours.
List D.[7]—Botany 1, 2, 7; 3 to 13 hours.
Economics 16c; 2 hours.
Geology 12; 5 hours.
Meteorology (Geology 14); 3 hours.

Requirements for Graduation in the Agriculture Course.

Students are graduated with the degree of bachelor of science upon completing the following work:

1. The studies of the prescribed list.

2. Sufficient electives to make a total of 130 semester hours, of which not less than four and one-half shall be chosen from elective list A, not less than three from elective list B, not less than twenty from elective list C, and the remainder from any subjects offered in the University, which the student is prepared to take.

A thesis is not required for graduation, but any student who has completed not less than 90 hours of credit before the senior year may then elect a thesis course in any department (subject to the approval of the head thereof) in which he has done at least 20 hours' work.

For this purpose animal husbandry will admit credits in thremmatology to the extent of five hours. Thremmatology will admit all work in animals and plants relating to type or function, whether done in agricultural departments or in those of botany or zoology, but does not include credits in crop or animal production.

Courses of Instruction

Leading to the degree of B.S. in Agriculture

The following outlines show the most favorable time and order in which the prescribed studies of the course can be taken. By adding to this from the elective list the student will be able to meet his individual needs, so that a variety of courses may be built about this outline of subjects prescribed for graduation. Though it is not insisted that the scheme be followed, students are strongly recommended to follow it, in order to avoid conflicts.

[7]Electives specially recommended to agricultural students.

First Year

1. Botany 12[1]; Chemistry 1; Dairy Husbandry 1; Geology 11; Military 2; Library Science 12; Physical Training 1, 3; Rhetoric 1; Electives in Agriculture.

2. Agronomy 6; Chemistry 2, 3; Military 1, 2; Physical Training 1; Rhetoric 1; Electives in Agriculture.

Second Year

1. Chemistry 13a; Entomology 4; Horticulture 1; Library Science 12; Rhetoric or English; Electives.

2. Botany 1 or Zoology 10; Household Science 8; Military 2; Rhetoric or English; Electives.

Third Year

1. Agronomy 9; Botany 2; Economics 2; Electives.

2. Agronomy 12; Horticulture 10; Electives.

Fourth Year

1. Animal Husbandry 7; Electives.

2. Thremmatology 1; Electives.

Suggested Course for Students Specializing in Animal Husbandry

First Year

1. Botany 12 (second half); Chemistry 1; Library Science 12; Geology 11 (first half); Military 2; Physical Training 1, 3; Rhetoric 1; Dairy Husbandry 2; Animal Husbandry 21 (first half), 11 (second half), 10 (second half).

2. Chemistry 2, 3; Military 1, 2; Physical Training 1, 3; Rhetoric 1; Dairy Husbandry 17 (second half), Animal Husbandry 4, 5 (first half), (9).

Second Year

1. Chemistry 13a; Rhetoric or English; Dairy Husbandry 1; Animal Husbandry 16, 20 (first half).

[1]The numbers after the subjects refer to the number of the course in the General Description of Courses, Part III.

2. Zoology 10; Household Science 8; Military 2; Rhetoric or English; Animal Husbandry 13 (first half); Agronomy 1 (second half); Electives.

Third Year

1. Agronomy 9; Zoology 2; Economics 2; Horticulture 1; Animal Husbandry 1 (second half); Electives.

2. Agronomy 12; Horticulture 8, 10; Animal Husbandry 12, 14; Electives.

Fourth Year

1. Animal Husbandry 7 (first half); 18, 19 (first half); Entomology 4 (first half); Electives.

2. Animal Husbandry 22; 17; Thremmatology 1; Electives.

Suggested Course for Students Specializing in Dairy Husbandry

First Year

1. Botany 12; Chemistry 1; Library Science 12; Geology 11; Military 2; Physical Training 1, 3; Rhetoric 1; Dairy Husbandry 1, 14.

2. Agronomy 6; Chemistry 2, 3; Military 1, 2; Physical Training 1, 3; Rhetoric 1; Dairy Husbandry 19, 15.

Second Year

1. Chemistry 13a; Entomology 4; Horticulture 1; Rhetoric or English; Dairy Husbandry 2, 16.

2. Botany 1 or Zoology 10; Household Science 8; Military 2; Rhetoric or English; Dairy Husbandry 18, 17.

Third Year

1. Agronomy 9; Botany 2 or Zoology 2; Economics 2; Dairy Husbandry 11, 18; Electives.

2. Agronomy 12; Horticulture 10; Dairy Husbandry 20, 7; Electives.

Fourth Year

1. Animal Husbandry 7; Electives.

2. Dairy Husbandry 12; Thremmatology 1; Electives.

Suggested Course for Students Specializing in Horticulture

First Year

1. Chemistry 1; Rhetoric 1; Horticulture 1; Botany 11; Military 2; Physical Training 1, 3.

2. Chemistry 2, 3; Rhetoric 1; Horticulture 8; Botany 1; Military 1, 2; Physical Training 1.

Second Year

1. Chemistry 13a; English 1; Botany 2; Entomology 4; Animal Husbandry 21; Military 2.

2. Horticulture 2, 3, 5, 20; Agronomy 1, 6; Household Science 8; Military 2; Electives.

Third Year

1. Agronomy 9; Economics 2; Horticulture 4; Dairy Husbandry 1; Geology 11; Botany 12; Library Science 12.

2. Agronomy 12; Horticulture 7, 15; Electives.

Fourth Year

1. Animal Husbandry 7; Horticulture 10, 12; Botany 7; Electives.

2. Thremmatology 1; Horticulture 17 or 18, 22; Electives.

General Course in Household Science

This course is designed to provide an education in those branches that especially serve the interests of women students.

Although the main work is scientific and technical, the importance of an artistic and literary training for home life is not lost sight of, and ample opportunity is given for a study of subjects of that character. Indeed, so important are they deemed that a considerable amount of art and design, English, history, and foreign language is required of students in the course. Opportunity is given, moreover, for increasing the amount of liberal, scientific or technical subjects by leaving the way open for a certain number of electives. Of the one hundred and thirty hours required for graduation, ninety-one are provided for in the prescribed list and the restricted electives of list A. The other hours of credit necessary for graduation may be taken, subject to the approval of the Dean of the College, from any courses offered in the University. Holders

of scholarships in household science in this college take the course as laid out here. Variations from it can be made only by special permision of the Council of Administration on recommendation of the faculty of the college.

Prescribed Subjects

Architecture 29a and b; 4 hours.
Art and Design 1, Architecture 41; 4 hours.
Botany 11; 5 hours.
Chemistry 1, 2 and 3; 10 hours.
English 1, 27; 8 hours.
History 1 or 3; 6 or 8 hours.
Household Science 1, 2, 3, 6, 7; 12 hours.
Library 12; 1 hour.
Physiology 4; 5 hours.
Physical Training 7, Physiology 6; 3 hours.
Rhetoric 1; 6 hours.

In addition to the above, students will elect as follows:

Botany or Zoology, 5 hours.
English or Rhetoric, 5 hours.
Foreign Language, 16 hours.
[1]Elective List A, a minimum of 4 hours.

Electives

List A.—Architecture 6; 4 hours.
Horticulture 10, 19; 5 hours.
Household Science 5, 10; 5 hours.
Economics 1; 7 hours.
Physics 2; 4 hours.
Sociology 5.

Course of Instruction

Required for the Degree of B.S. in General Course in Household Science

First Year

1. Botany 11 or Zoology 10; Chemistry 1; Household Science 2; Rhetoric 1; Physical Training 7, Physiology 6.

2. Chemistry 2 and 3; Household Science 1; Rhetoric 1; Botany 1; Physical Training 7, Physiology 6.

[1]If Physics has not been offered for entrance, its equivalent should be elected

Second Year

1. English 1; Art and Design 1; Architecture 41; Foreign Language; Household Science 6; Architecture 29a and b.

2. Household Science 3; English 27 or 23; Foreign Language; Botany 5.

Third Year

1. History 3; Library 12; Household Science 7.

2. Physiology 4; History 1.

Fourth Year

See elective list and requirements for graduation.

Landscape Gardening

The work is twofold. (1) Instruction of an elementary character for one semester to all who are working for a baccalaureate degree in agriculture. (2) A four years' course looking to graduation in preparation for professional landscape gardening.

The object of the second course is to provide instruction to those who wish to prepare for professional landscape gardening. The intention is to give thorough training in design as applied to landscape gardening and, at the same time, to provide means by which these art ideas can be executed. Also, such subjects are included as will tend to broaden one's horizon and give some little acquaintance with the liberal arts.

The artistic instruction of the course consists of almost continuous work in composition throughout the four years, two years being given to architectural design and the rest to landscape design. This is supplemented by another almost continuous course in free hand drawing and the use of water-colors that the hand may become the servant of the eye. Technique, or the means of execution of art ideas is provided:—first, by some acquaintance with engineering methods, such as surveying, road construction, grading and wall building, and, second, by horticulture where a familiarity with plants and their propagation, culture, and care are emphasized, together with such practice as will enable a student to make a reasonable planting plan. These are accompanied by their allied sciences, and by such general subjects as a modern language, rhetoric, and history.

Precribed Subjects

Agronomy 1; 2½ hours.
Architecture 6, 8, 14, 16, 17, 18, 22, 29b; 32; 27 hours.
Art and Design 1, 3, 4; 18 hours.
Botany 11; 5 hours.
Chemistry 1; 5 hours.
Civil Engineering 1, 21; 7 hours.
Drawing, General Engineering 1; 4 hours.
Entomology 4; 2½ hours.
French 1; 8 hours.
History 1; 6 hours.
Horticulture 5, 7, 23, 24, 25, 26, 27, 28, 29; 26½ hours.
Mathematics 4; 2 hours.
Military 1, 2; 5 hours.
Physical Training 1, 3; 2 hours.
Rhetoric 1; 6 hours.

Course of Instruction

Required for the Degree of Bachelor of Science in Landscape Gardening

First Year

1. Art and Design 1; Botany 11; Drawing (General Engineering) 1; Military 2; Physical Training 1, 3; Rhetoric 1.

2. Agronomy 1; Architecture 8; Art and Design 1; Mathematics 4; Military 1, 2; Physical Training 1, 3; Rhetoric 1.

Second Year

1. Architecture 14, 18; Art and Design 3; Civil Engineering 21; French 1; Military 2; Horticulture 23.

2. Architecture 17, 32; Art and Design 3; Civil Engineering 1; French 1; Military 2; Horticulture 23; Chemistry 1.

Third Year

1. Architecture 6, 22; Art and Design 4; History 1; Horticulture 23, 24.

2. Architecture 6, 16; Art and Design 4; History 1; Horticulture 23, 24.

Fourth Year

1. Architecture 29b; Entomology 4; Horticulture 25, 26, 27, 28, 29.

2. Architecture 29b; Horticulture 5, 7, 25, 26, 27, 28, 29.

Requirements for Graduation

Students are graduated with the degree of Bachelor of Science in Landscape Gardening upon completing the studies of the prescribed list, and sufficient electives, which may be any University courses approved by the instructor in charge, to make a total of 130 hours.

SECONDARY SCHOOL AGRICULTURE

The people of the rural communities have long been demanding that in the development of our educational policy recognition be given to agriculture as a subject and to farmers as a natural constituent of the body politic.

The high schools now pretty generally not only recognize the justice of this demand, but are beginning to see the pedagogic value of agriculture, in certain of its forms at least, and are ready to introduce this study into the curriculum as fully as local needs will justify and as soon as competent teachers can be found.

To aid in meeting the new conditions and to assist in determining what aspects of agriculture are suitable for secondary school purposes and how they should be taught, the college of agriculture is now offering two courses of study in the hands of a competent instructor who has had long experience as a teacher and who is intimately acquainted with the profession of agriculture and its people. (See Agricultural Extension in Part III. for outline of courses).

GRADUATE SCHOOL

EXECUTIVE FACULTY

EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT

DAVID KINLEY, Ph.D., Professor of Economics, and Dean.

THOMAS JONATHAN BURRILL, Ph.D., LL.D., Vice-President, Professor of Botany.

STEPHEN ALFRED FORBES, Ph.D., LL.D., Director of the Illinois State Laboratory of Natural History and State Entomologist, Professor of Zoology.

ALBERT PRUDEN CARMAN, A.M., D.Sc., Professor of Physics.

*GUSTAF E. KARSTEN, Ph.D., Head of the Department of Modern Languages, Professor of the German Language and Literature.

WILLIAM FREEMAN MYRICK GOSS, D.Eng., Dean of the College of Engineering, Director of the School of Railway Engineering and Administration.

GUY STANTON FORD, Ph.D., Professor of Modern European History.

CHESTER NOYES GREENOUGH, Ph.D., Professor of English.

GEORGE ABRAM MILLER, Ph.D., Professor of Mathematics.

LOUIE HENRIE SMITH, Ph.D., Assistant Professor of Plant Breeding, Assistant Chief of Plant Breeding in the Agricultural Experiment Station.

WILLIAM ALBERT NOYES, Ph.D., Professor of Chemistry and Director of the Chemical Laboratory.

ADMISSION

Graduates of the University of Illinois, and of other colleges and universities of approved standing, may be admitted to member-

*Died January 29, 1908.

ship in the Graduate School. Other persons, suitably qualified, may gain admission upon such conditions as may be imposed in each case.

All work for advanced degrees must be done in residence at the University, excepting in the cases of graduates of this University, who are candidates for second, or master degrees, and in special cases when candidates in residence need a leave of absence for the pursuit of their work elsewhere, or who, having completed the residence requirements for their degrees, may wish to register here and finish their work at another university.

Members of the Graduate School register with the Dean during registration days, at the beginning of the collegiate year. Students may enter at other times but the period required for doing work to receive the degree counts from the date of entrance. Application forms may be obtained from the Dean.

Only those are classed as graduate students and members of the Graduate School who are actually pursuing graduate work. Holders of bachelors' degrees, who are candidates for other bachelors' degrees, or are simply taking special work, are not included among the graduate students.

STUDIES AND EXAMINATIONS

It is not possible to state in terms of time what constitutes sufficient or full work for a graduate student. Ordinarily, however, each one is expected to carry three subjects daily, or do an amount of work in one or two subjects equivalent to that required for the three.

Each student is required to select one principal line of study, called his major subject. The name of the major is usually that of the department in which the student is enrolled. For example, a student's major may be French, economics, civil engineering, zoology, or agronomy. Candidates for second degrees in all lines except engineering are at liberty to choose three subjects of study, one major and two minors. Usually, students in all work except engineering, should choose at least one minor, and may not elect more than two. The name minor is given to the subjects taken by the student aside from his principal, or major, line of work.

Candidates for second degrees in engineering must confine themselves to one subject, their major, and candidates for second de-

grees in all other lines may do the same if they wish. Having chosen their major subjects, engineering students must then select, under the advice of the head of the department of major work, one or more primary, and one or more secondary subjects, as listed under "Courses for Graduates," under each of the engineering subjects in the general description of courses in Part III.

To illustrate the possible arrangement of work in engineering: A student may elect as his major civil engineering. He will then choose one of the primary and one of the secondary courses listed under "Courses for Graduates in Civil Engineering."

A student in other than engineering work, candidate for a second degree, will fill out a program of which this is an illustration: major, zoology; first minor, botany; second minor, physiology. If he does not choose minors of course his program will have on it only the subject zoology.

The major study must have been preceded by an amount of undergraduate study in the subject sufficient to enable the candidate to enter upon graduate work. All candidates must direct their selection towards some well defined end, determined, for the most part, by the character of the major study. They must make up their courses with the advice of the head of the department in which their major work lies, and the approval of the Dean of the Graduate School.

Each candidate for a second degree must present an acceptable thesis on a subject in the field of his major study. The subject of the thesis must be announced to the Dean of the Graduate School through the head of the department in which the student's major work lies, not later than the first Monday of November of the academic year in which his course is to be completed. The completed thesis, upon regulation paper, with the certified approval of the professor in charge, must be presented to the Dean not later than June first.

The requirement of a thesis for the master's degree may be waived, however, upon the recommendation of the head of the department in which the student is doing his major work, and the approval of the Dean.

Candidates for a master's degree *in absentia,* who do not write theses, are required to present themselves at the University for examination as part of the requirement for the degree. This examination must be held during the examination period just preceding Commencement.

Candidates for a master's degree *in absentia* are required to make at least one report showing satisfactory progress upon their work, during each academic year in which they are registered, otherwise their names will be dropped from the membership of the Graduate School.

No work done during a student's undergraduate course shall be counted for credit on his major work for a second degree; but such work may be counted for credit on his minors, provided it was done, not by taking extra work in the usual period of the undergraduate course, but after he had finished the requirements for a baccalaureate degree. That is, if a student as an undergraduate, secures 144 hours credit by overcrowding his course with, say 20 hours a semester, none of these may be counted towards a second degree.

If, however, a student's undergraduate work is so far advanced that he finishes the work for the first degree by not later than the middle of his senior year, what he does in addition during the rest of the year may be counted for graduate credit, if properly approved.

It is understood that the requirement of one year's residence for a master's degree means a full year's work, and not merely presence at the University doing a little work.

DEGREES

No degrees are given for study *in absentia*, except that *graduates of this University*, who become members of the Graduate School and reside elsewhere, may receive a master's degree upon the completion of their course of study within not less than three years of the date of registration. Degrees are conferred by the Trustees of the University only upon recommendation of the Senate, based upon information furnished by the Faculty of the Graduate School.

Second Degrees

The second degrees conferred by this University are as follows:

Master of Arts after Bachelor of Arts.

Master of Science after Bachelor of Science in courses in the colleges of Agriculture and Science.

Master of Architecture after Bachelor of Science in the courses in Architecture and Architectural Engineering.

Civil Engineer after Bachelor of Science in the course in Civil Engineering.

Electrical Engineer after Bachelor of Science in the course in Electrical Engineering.

Mechanical Engineer after Bachelor of Science in the course in Mechanical Engineering.

Pharmaceutical Chemist after Graduate in Pharmacy.

All candidates for second degrees are required to register in the Graduate School, to pursue an approved course of study for one academic year in residence, or, in the case of graduates of this University, for three years *in absentia;* and to pass satisfactory examinations upon all the studies of the approved course.

Doctor's Degree

The Degree of Doctor of Philosophy may be conferred upon any member of the Graduate School of at least three years' standing who shall have reached high attainments in scholarship, who shall have shown marked ability in some line of literary or scientific investigation, and shall have presented a thesis giving clear indications of such scholarship and of such power of research. At least the first two, or the last one, of the required three years of graduate study must be in residence at this University.

The time and study required for a master's degree may be included in the three years required, but approval of a course of study for a doctor's degree must be upon the condition that the candidate is prepared to enter upon advanced work in the line of his major subject; and the work on this major subject must be continued through the three years.

Each candidate for a doctorate must submit to a preliminary examination at the beginning of the year in which he expects to take his degree, in order to determine whether he may be admitted as a candidate for the degree. This examination covers, in a general way, the fields of his major and minor subjects. At the same time the candidate must show, by examination or otherwise, unless he has previously done so, that he has ability to use French and German sufficiently for work in his line of research.

The final examination of a candidate for the doctor's degree is conducted by a committee appointed by the Dean. The head of the department in which the student's major subject lies, is chairman of this committee, and at least two other members of the

Graduate School faculty are appointed to aid him. The examination may cover the whole field of the candidate's study, and is especially searching upon the line of his major work and his thesis.

No work done *in absentia* is accepted for the doctor's degree. However, a student who has done his first two years' work as a candidate for this degree at this University, and has passed his preliminary examination, may, under leave of absence, continue his studies at some other university or college in good standing and of equal rank with this, and at the end of the time present himself here for an examination.

Except in special cases, under special approval, work done in the summer session of the University can not be accepted for the doctorate.

Each candidate for a doctor's degree must announce to the Dean of the Graduate School a thesis subject approved by the head of the department of his major study, not later than the first Monday in November of the academic year at the close of which he expects to take his degree. A fair copy of the thesis must be submitted, with the certified approval of the committee on the final examination, to the Faculty of the Graduate School no later than the first day of June. If a thesis is accepted by the Faculty, the candidate must have it printed and must deposit one hundred copies in the library of the University.

FELLOWSHIPS

The Trustees of the University have established eight fellowships, each with a stipend of three hundred dollars, payable in ten monthly installments.

The rules governing appointments to these fellowships are as follows:

1. The purpose of these fellowships is to promote advanced scholarship and original research in the University.

2. The fellowships are open to graduates of this and similar institutions. Those who are to complete an undergraduate course previous to the academic year for which appointments are made are eligible with others, as candidates.

3. Nominations to fellowships, accompanied by assignments to special departments of the University, are made upon applications to be received by the head of the department in which the applicant intends to do his major work, not later than the first of February.

These nominations are made within the month of February. The appointments by the Trustees are made at their regular meeting in March, and take effect the first day of the following September. Vacancies may be filled by similar nominations and appointments at other times.

4. Nominations to fellowships are made upon the grounds of worthiness of character, scholastic attainments, and promise of success in the principal line of study or research to which the candidate proposes to devote himself.

5. Candidates must present, with their applications, full information concerning themselves and their qualifications for advanced study and research work, including any written or printed essays or results of investigation, and must name the subjects in which they wish to do their major work.

6. Fellowships are good for one year, but appointments may be renewed to the same person. An appointment as *honorary fellow,* without stipend, may be made as specified for paid fellowships in the case of anyone who has held a regular fellowship and has shown distinguished merit in his work.

7. Fellows are members of the Graduate School and have all of the privileges and bear all of the responsibilities of such membership. Each regular fellow may be called upon to render service in instruction throughout the year in the department in which his major subject lies, equal to one hour daily of class instruction or to two hours daily of laboratory supervision. This service will receive such credit as may be determined in each case. Blank forms for application may be obtained by addressing the Registrar, or the Dean of the Graduate School.

8. Fellows pay no tuition or incidental fees, but pay the matriculation fee unless they have been matriculated as undergraduates.

9. Applicants for fellowships are required to send promptly to the Dean of the Graduate School notice of their acceptance or refusal; and to agree further, that, if accepted, the fellowship will not be resigned to take a fellowship in any other institution during the year for which it is awarded.

Research Fellowships in the Engineering Experiment Station

Ten fellowships, each of five hundred dollars a year, have been established in the Engineering Experiment Station. Applicants to whom these fellowships are awarded are required to agree to hold

them for two years, devoting a part of their time to work in the Engineering Experiment Station of the University. Application for these should be made to the Director of the Engineering Experiment Station.

Holders of these fellowships are subject to the same University regulations as holders of other fellowships.

APPOINTMENTS AS ASSISTANT

There are opportunities in many departments of the University for properly qualified persons to act as assistants on half time, and to devote the rest of their time to the pursuit of graduate study. From the nature of the case no definite announcement can be made of the departments in which these appointments may be open from year to year.

STATE LIBRARY SCHOOL

FACULTY

EDMUND J. JAMES, PH.D., LL.D., President

ALBERT SHERWOOD WILSON, A.B., B.D., Acting Director, Professor of Library Economy.

FRANCES SIMPSON, M.L., B.L.S., Assistant Professor of Reference Work.

ANNA MAY PRICE, A.M., B.L.S., Assistant Professor of Library Economy.

FLORENCE RISING CURTIS, Instructor in Library Economy.

ANNE DAVIES SWEZEY, B.L.S., Instructor in Laboratory Course.

ELIZABETH FORREST, B.L.S., Instructor in General Reference.

FRANCIS K. W. DRURY, A.M., B.L.S., Lecturer on Order Department.

PHILIP S. GOULDING, A.B., Lecturer on Catalog Department.

ADMISSION

Applicants for admission to the Library School must have matriculated in the University and must have secured here or at some other college or university, 98 hours[1] of credit in university work, including the subjects prescribed for graduation from the College of Literature and Arts or the College of Science. Students are urged to complete a four years' college course before applying for admission.

AIMS AND SCOPE

It is the purpose of the Library School to offer instruction (1) to students who wish to specialize in library work as a profession, and (2) to students who wish to elect liberal library courses as part of a general education.

[1]See part III for definition.

Electives are introduced to allow for personal preference and fitness for various positions. The practical work of the course amounts to over three months of time counting eight hours a day, and this is more valuable, because more varied, than if taken in three consecutive months in a library. Moreover, the library school student has the benefit of comparative study, while the apprentice becomes skilful in the ways of one library only.

Although elaborate methods are taught to enable students to work in large libraries where bibliographic exactness is required, stress is laid throughout the course on simplicity and economy of administration. Moreover, emphasis is constantly laid on the responsibility of the librarian to the schools and clubs and to the community at large.

The general student may elect, in his senior year, any subject in the list of library electives for which he is prepared. Such subjects have been indicated as will help the student in general reading, in research work, in club work, or as a member of a library committee or board of trustees. For the general student who does not care to elect any regular library course, the School offers a course of fifteen lessons on the use of the library and the ordinary reference books. This course is open to students in all classes.

REQUIREMENTS FOR GRADUATION

Credit for two years' technical library work is required for graduation.

Course of Instruction

Required for the degree of B.L.S.

Fourth Year

1. Elementary Library Economy (Lib. 1); Elementary Reference (Lib. 2); Selection of Books (Lib. 3); History of Libraries (Lib. 7); Library Extension (Lib. 14); Elementary Laboratory Course (Lib. 4).

2. Elementary Library Economy (Lib. 1); Elementary Reference (Lib. 2); Selection of Books (Lib. 3); Library Extension (Lib. 14); Elementary Laboratory Course (Lib. 4).

Fifth Year

1. Advanced Library Economy (Lib. 5); Bibliography (Lib. 6); Advanced Reference (Lib. 8)[1]; Public Documents (Lib. 13); Advanced Laboratory Course (Lib. 10); Seminary (Lib. 15).

2. Advanced Library Economy (Lib. 5); Bibliography (Lib. 6); Bookmaking (Lib. 9)[1]; Public Documents (Lib. 13)[1]; Advanced Laboratory Course (Lib. 10); Seminary (Lib. 15).

METHODS OF INSTRUCTION

There are so few text-books on library economy that instruction is given almost altogether by lecture and laboratory methods. References to books and periodicals are given for collateral reading, and individual research is encouraged. Lectures are illustrated by the collections of forms and fittings, and each student is expected to do a certain amount of practical work in the University library each day. Before completing the course, each student must have had actual experience in every department of the library. Class room work is tested by problems, and examinations take the form of problems wherever practicable.

LOCAL LIBRARY COOPERATION

The library of the University of Illinois and the Champaign Public Library have systematic plans for co-operation through the Library School, in the interest of the clubs. Each woman's club in Champaign and Urbana sends its program for the year to the Library School, where a referenec list is made on each subject, specifying in which library the material is to be found. A copy of each list is posted in each library.

EQUIPMENT

The most valuable equipment is the working library of the University.

The Library School has the complete collection of manuscript notes and problems which have been prepared since the School opened in 1893, and a collection of library reports and catalogs, models, samples, and photographs showing methods of administration in all departments of various types of libraries.

[1]Elective for library students.

SCHOOL OF MUSIC[1]

FACULTY

EDMUND J. JAMES, PH.D., LL.D., PRESIDENT

FREDERICK LOCKE LAWRENCE, Director, Professor of Music (Piano).

HENRI JACOBUS VAN DEN BERG, Associate in Piano.

MAY EMORY BRENEMAN, Instructor, Vocal Music.

GEORGE FOSS SCHWARTZ, A.B., Instructor in Violin, Musical History, and Theory.

CONSTANCE BARLOW SMITH, Instructor in Sight Singing, Ear Training, and in charge of Public School Methods.

WINIFRED FORBES, Instructor in Violin and Theory.

ALBERT AUSTIN HARDING, Instructor in Band Instruments.

BERTHA I. HOWE, Instructor in Piano, and in charge of the Preparatory Department.

GEORGE RAWSON WADE, Instructor in Voice, and in charge of the Vocal Department.

LOIS MCCOBB, Instructor in Voice.

SARAH DELANO MORTON, Instructor in Piano.

MAY ELIZABETH FLOYD, Instructor in Piano.

ADMISSION

For admission to the School of Music, the candidate must fulfill the general conditions described on pages 22 ff. He may then enter on presentation of a certificate from a fully accedited high school, for all required credits except music, or by examination, or by transfer from some other college or university.

As in all other cases, 15 units of high school work are required for admission. Of these the following are prescribed and no substitutes are allowed:

[1]A special circular giving complete details of the work of the School Music may be obtained on application to the Registrar.

Algebra	1½	units
English composition	1	unit
Literature	2	units
Geometry, Plane	1	unit
History	1	unit
Foreign language	3	units[1]
Music	2	units

The remainder of the required 15 units must then be made up from the elective subjects listed in the table on page 24 in the amounts here indicated. The subjects accepted for admission are described on pages 24 ff.

The 2 units required in music must be obtained in all cases by examination at the University. Certificates for this work are not accepted. For admission as special students, admission to advanced standing, etc., see page 38.

AIMS AND SCOPE

The School of Music offers regular courses leading to the degree of bachelor of music, and furnishes opportunity to students not candidates for a degree to spend an indefinite amount of time in the study of an instrument or of the voice.

A series of lectures and recitals is given each year. Only artists of the best reputation appear. Music students are admitted free, and are required to attend these concerts.

The instructors in the School of Music give recitals and lectures on musical subjects during the year.

The course in the history of music, as well as the work in the University Orchestra and the University Choral Society, may be taken by students in other departments.

REQUIREMENTS FOR GRADUATION

Credit for 130 semester hours,[2] including military and physical training credit, together with an acceptable thesis, is required for graduation. The thesis must be on a topic related to music.

Students who are not working for the degree in music may receive a statement from instuctors upon completing not less than one year of college work.

[1] At least two of these must be in the same language.
[2] For definition of hour see Part III.

Special and preparatory music students are required, in addition to their practical work in music, to take a certain amount of other studies.

Students enrolled in the department of music only, pay no semester fees, but must pay the music fees.

Classes in ear-training meet twice each week. The fundamental principles of musical notation are studied thoroughly, and the ear is trained to recognize intervals, chords, etc., so that the student may eventually think music. Music students are required to attend these classes.

The sight singing classes meet twice each week. This work is required of music students and is open to any University students who desire to take it.

CLASSIFICATION OF SUBJECTS

PRESCRIBED

Music 1; 4 hours.
Music 2; 4 hours.
Music 3; 6 hours.
Music 4; 6 hours.
Music 5; 5 hours.
Music 7; 8, 9, 10;
or 12, 13, 14, 15;
or 17, 18, 19, 20; 58 hours.
French or German; 16 hours.
Mathematics 4; 2 hours.
Military 1, 2; 5 hours.
Physical Training—
Men, 1, 3; 2 hours.
Women, 7, 9; 3 hours.
Physics 2; 2 hours.
English 1; 4 hours.
Rhetoric 1; 6 hours.
English 16; 3 hours.
Rhetoric 3; 4 hours.

The remaining hours of credit may be obtained in electives offered in the College of Literature and Arts, choice of subjects being left to individual students.

MUSICAL ORGANIZATIONS

The University Glee Club is an organization for men. Membership is decided by competition and is limited to sixteen in number. The club meets twice a week for rehearsal.

The Ladies' Glee Club is an organization for the young women of the University, and is in charge of the head of the vocal department.

The Mandolin and Guitar Club is open to men. Membership is decided by competition, and the club is associated with the Glee Club in its concerts.

The Military Band is conducted by the Instructor in Band Instruments. Besides giving several concerts within the year, it furnishes music for important University occasions, regimental formations and ceremonies and on all other occasions required by the President. Membership is limited in number and is decided by competitive examination.

The University Orchestra meets for a two hours' rehearsal once a week, and is open to all students who play any orchestral instrument ordinarily well.

The University Choral Society is conducted by the Director of the School of Music, and meets once a week for rehearsal of choral works. A small fee is charged for membership, and singers not connected with the University are admitted. The society gives each year a Christmas concert and a May Festival.

SUMMER SESSION

Edmund Janes James, Ph.D., LL.D., President
Herbert Jewett Barton, A.M., Dean
Thomas Arkle Clark, B.L., Director

The faculty of sixty persons is made up chiefly from the regular instructional force of the University.

GENERAL STATEMENT

The Summer Session for the year 1908 will open June 15 and close August 14, making a term of nine weeks. This is equivalent to one-fourth of the regular University year, and credit will be given on that basis. The opening day will be devoted to registration. Examinations for those desiring credit for the work will be held on Thursday and Friday, August 13 and 14. Examination in some of the courses may be had at the end of six weeks by those who find it impossible to remain during the whole session. Instruction begins on June 16 and closes on August 12.

Students will present themselves for registration at the Library on Monday, June 15, between the hours of 8 a. m. and 4 p. m.

FEES

A tuition fee of twelve dollars ($12) is required of all students in regular attendance at the session. This entitles one to admission to regular courses and to all special lectures. An extra laboratory fee in some courses is charged for material used. Any single course may be taken for a fee of six dollars ($6) and the laboratory fee, if there be any in connection with the course taken, a single course being understood to mean not more than two and one-half hours. A permit to attend special lectures may be obtained from the Dean of the Session without the payment of any fee.

For catalog containing full information, address the Registrar or the Director.

SCHOLARSHIPS

All high school teachers in Illinois, and all other teachers in the State who are able to matriculate in the University, are entitled to a free scholarship in the Summer Session of the University. Teachers desiring these scholarships should present to the Director *before June 1, 1908,* a statement from the board of education of the school in which they were employed to the effect that they have been teaching during the past year. Blanks for this purpose may be had by addressing the Director. Teachers wishing scholarships on the ground of their ability to matriculate should present their credentials to the Registrar *before June 1, 1908.*

Besides the regular exercises two incidental lectures will be given each week. The following lectures have been arranged for:

Professor D. K. Dodge, Abraham Lincoln.

Professor J. C. Blair, Ornamental Planting.

Mr. D. O. McGovney, The Power of Courts to Declare Acts of Congress and of State Legislatures Unconstitutional.

Professor E. C. Baldwin, The Bible as Literature.

Dr. C. W. Balke, High Explosives.

Professor C. M. Moss, A Modern Chapter from Ancient History.

Mr. F. K. W. Drury, The Use of Books.

Professor C. F. Hottes, A Visit to the Cliff Dwellings of the Mesa Verde.

Professor G. T. Kemp, What Medicine Owes to the Advances in General Science.

Professor G. H. Meyer, A Visit to German Cities.

Professor E. C. Hayes, Relation of Sociology to the Art of Teaching.

Professol Joel Stebbins, Life in a Mountain Observatory.

Professor N. A. Wells, Art in the School Room.

Professor S. A. Forbes, The Numbers and Local Distribution of Illinois Birds.

OUTLINE OF COURSES

AGRICULTURE

Mr. Barto

S 1. Secondary School Agriculture.—A course arranged for the teachers in rural high schools, especially for the teachers of the

science courses in these high schools, who wish to make preparation for teaching agriculture.

The whole equipment of the College of Agriculture will be available for instructional purposes. *Daily; two periods; first six weeks;* (1½).

S 2. Elements of Agriculture.—This course is planned to meet the needs of teachers who wish to give instruction in agriculture in rural schools. Especial attention will be given to the preparation of exercises in the study of soils and seeds, the problems dealing with germination and plant growth.

This course will cover as far as practicable the work in agriculture given in the State Course of Study for the Common Schools of Illinois. *Daily; two periods; first six weeks;* (1½).

ART AND DESIGN

Assistant Professor Lake, Miss Hill

S 1. Elementary.—A course in form drawing from still life, cast, and nature. The elementary principles of outline and shading will be studied in pencil, charcoal, and crayon. Lectures on the principles of perspective will be offered in connection with this course. *Daily; two periods;* (2). Mr. Lake, Miss Hill.

S 2. Water Color Painting.—Instruction in painting still life, flowers, and landscape will be offered in connection with this drawing. *Daily; two periods;* (2). Miss Hill.

S 3. Art for the Common Schools.—For supervisors of drawing and public school teachers. In this course students plan and execute work in the several divisions of common school art study. Design will be a feature of the work and will be made to correlate with the manual training taught in the shops. Blackboard drawing will be emphasized. Lectures will be given upon organization, equipment and the administrative side of the supervisors' work. *Daily; two periods; first six weeks;* (2). Mr. Lake.

BOTANY

Assistant Professor Hottes, Dr. Gleason, ————————

Courses S E 1 and S E 2 are elementary courses and are intended for those who are beginning the study of a laboratory subject. Both are required for entrance to Botany 1 or 2 (General University Courses).

S E 1. General Morphology.—A study of the form and structure of the vegetative and reproductive organs of phanerogams. Lectures, laboratory, and field work. *Daily; two periods;* (2½). Assistant Professor Hottes, ————————.

S E 2. General Morphology.—A field and laboratory study of selected types of crytogams. Particular attention is given to species of economic importance. *Daily; two periods;* (2½). Dr. Gleason. (Not given in 1908).

S 3. Elementary Physiology.—A study of the more important physiological processes in the plant. *Daily; two periods;* (2½). Assistant Professor Hottes.

Prerequisite: Entrance credit in botany or its equivalent.

S 4. Technique and Elementary Histology.—Methods of collecting and preserving material for the class room, and the preparation of permanent slides and museum specimens. A study of the minute anatomy of the vegetative organs. *Daily; two periods;* (2½). Assistant Professor Hottes.

Prerequisite: Entrance credit in botany or its equivalent.

S 5. Systematic Botany.—The course is devoted exclusively to flowering plants and includes field collections and the identification of species. Studies are made upon systems of classification and upon the chief characteristics of important families. *Daily; two periods;* (2½). Dr. Gleason.

Prerequisite: Entrance credit in botany or its equivalent. (Not given in 1908).

S 6. Ecology.—Lectures and field work. Ecological factors and the structure and functions of typical plant associations. *Daily; two periods;* (2½). Dr. Gleason.

Prerequisite: Entrance credit in botany or its equivalent. (Not given in 1908).

S 18. Ecology.—The field work required for course 18 (given in semesters I and II) may be done during the summer in connection with other work in the session. Complete arrangements with the instructor may be made in advance, and credit will not be given for the field work alone. *Daily; four periods.* Dr. Gleason.

Prerequisite: Botany 4 or S 5; 17 or S 6.

Note.—Courses offered in botany alternate annually. Those not given in 1908 will be given in 1909.

CHEMISTRY

ASSISTANT PROFESSOR LINCOLN, DR. BALKE, MR. CLARK, MR. DERICK

Note.—By arrangement with the instructor, students, who do not wish to attend the recitations or do the laboratory work, may attend the lectures of S E 1 or S 2, but University credit will not be given in such cases.

S E 1. ELEMENTARY CHEMISTRY.—A course in general inorganic chemistry, dealing for the most part with the chemistry of the non-metallic elements. The course consists of illustrated lectures, recitations, and laboratory work. The text employed is Alexander Smith's General Inorganic Chemistry. *Daily; four periods;* (5). Dr. BALKE, Mr. CLARKE, Mr. DERICK.

S 2. DESCRIPTIVE INORGANIC CHEMISTRY.—This course is a continuation of S E 1 and is devoted mainly to the study of the metallic elements, their compounds, and properties. The course consists of illustrated lectures and recitations, but does not include laboratory work. Alexander Smith's General Inorganic Chemistry is used as a guide. *Daily, including Saturday;* (3). Dr. BALKE, Mr. CLARK, Mr. DERICK.

Prerequisite: Chemistry 1.

S 3a. QUALITATIVE ANALYSIS.—This course consists of lectures, recitations, and laboratory practice in the ordinary processes of qualitative analysis. *Daily, including Saturday, four periods;* (2½ to 5). Dr. BALKE, Mr. CLARK.

Prerequisite: Chemistry 1.

S 5a. ELEMENTARY QUANTITATIVE ANALYSIS.—The laboratory work comprises a series of experiments which illustrate the fundamental principles of gravimetric and volumetric methods. The lectures and recitations consist of a consideration of stoichiometrical relations, the fundamental laws of chemistry and their applications to the study of solutions. The text book is Lincoln and Walton's Exercises in Quantitative Analysis. *Daily; four periods;* (5). Assistant Professor LINCOLN.

Prerequisite: Chemistry 1 and 3a.

S 11. ELEMENTARY RESEARCH.—Opportunity will be given to carry on investigations in chemistry. *Arrange.* (2-5). Assistant Professor LINCOLN, Dr. BALKE.

S 13a. AGRICULTURAL ANALYSIS.—This course is arranged to meet the wants of agricultural students. The work begins with the

gravitative determination and separation of the more important constituents of soils, fertilizers, and agricultural products; it includes the chemical analysis of food stuffs, such as grains, fodders, and dairy products. The text book is Lincoln and Walton's Elementary Exercises in Quantitative Analysis. *Daily; four periods;* (5). Assistant Professor LINCOLN.

S 17a. COURSE FOR TEACHERS.—Designed for those who expect to teach the subject in high schools. Round table studies of the courses in chemistry of representative high schools, of the available text and reference books, of college entrance requirements in chemistry, and of the other phases of this course. Observation of the lectures, the laboratory work, and the quizzes of the elementary courses in chemistry in the University. Laboratory investigation of high school texts and laboratory guides. Exercises in developing laboratory courses and in devising and assembling lecture apparatus. Special problems connected with the business side of teaching chemistry; such as the selection, arrangement, and care of apparatus and chemicals. *Daily; two to four periods;* (2-5). Dr. BALKE, Mr. CLARK.

S 31. ELEMENTARY PHYSICAL CHEMISTRY.—This course is designed to give an elementary knowledge of the paramount facts of physical chemistry. Jones's Elements of Physical Chemistry. *Arrange;* (3). Assistant Professor LINCOLN.

S 33a. PHYSICAL CHEMISTRY.—A laboratory course supplementary to course S 31. *Arrange;* (2). Assistant Professor LINCOLN.

DRAWING, GENERAL ENGINEERING

MR. GIBBONS

1. ELEMENTS OF DRAFTING.—Required of all engineering students. Consists of lettering, free-hand sketching, and working drawings. Lettering. Free-hand treatment through plain forms, emphasis being laid upon off-hand lettering and working drawing titles. Text, Wilson's *Free-hand Lettering.* Sketching. Free-hand sketching of machine parts from models. Time sketches in working drawing from machine details in the shops and laboratories. Working drawing. Brief exercise in the use of tools, working drawings made from free-hand and time sketches. *Daily; three periods;* (4).

2. DESCRIPTIVE GEOMETRY.—Text, Church's *Descriptive Geometry,* accompanied by a syllabus and problem book. Problems relat-

ing to the point, line, and plane; the properties of surfaces, intersections and developments. Lectures, with recitations and drawing room work daily. *Daily; three periods;* (4).

Prerequisite: General Engineering Drawing 1.

ECONOMICS

Professor Robinson, Assistant Professor Weston

S 1. Principles of Economics.—A beginners' course giving a general survey of the field. *Daily;* (2). Assistant Professor Weston.

S 3. Banking.—A study of the theory of banking and banking practice in the United States. *Daily;* (2). Assistant Professor Weston.

S 10. Corporation Economics.—A study of the modern industrial organization, including the employers' association, the combination, the trust, and the corporation securities, and methods of distributing them. The promotion and financiering of consolidated corporations and the analysis of corporation reports, and other topics. This course requires a knowledge of the principles of economics. *Daily;* (2). Professor Robinson.

S 22. Economic History of the United States.—A study of general industrial development and of the growth of particular industries. *Daily;* (2). Professor Robinson.

EDUCATION

Professor Colvin, Assistant Professor Hollister, High School Visitor

S 1. Principles of Education.—This course will consider the following topics: The meaning of education and the educational ideal; the child as a developing organism; the school and the course of study; the home as a factor in education; moral and religious education. Lectures, discussions, themes. *Daily;* (2½). Professor Colvin.

S 2. Present Day Problems in Education.—Among the problems touched on will be the following: The truth and error in the doctrine of formal discipline; general culture versus vocational training; individual and social factors in education; the value and

place of interest in the school room. The course will consist of lectures, reports, and discussions. *Three times a week;* (1). Professor COLVIN.

S 3. A BRIEF SURVEY OF GREEK EDUCATIONAL IDEALS AND PRACTICES.—Special attention will be given to the Socratic Method and its place in modern teaching. The educational ideals of Plato, Aristotle and Stoics will be discussed. *Twice a week;* (1). Professor COLVIN.

S 4. SCHOOL ORGANIZATION AND ADMINISTRATION.—A general course including a brief historic discussion of the principles and laws under which Illinois schools are developing; present legal status of schools; school finances; material equipment; problems in organization; the course of study and the daily program. Comparative studies, especially in relation to supervision, finance, qualification and certification of teachers. *Daily; first six weeks;* (1⅔). Assistant Professor HOLLISTER.

S 5. SECONDARY SCHOOL MANAGEMENT.—Legal status of the high school; the high school as related to the community life and as a school of preparation; problems of the curriculum; the business side of high school work; discipline; social problems of the high school; the selection of teachers, text books, apparatus, library books. *Daily; first six weeks;* (1⅔). Assistant Professor HOLLISTER.

ENGLISH

PROFESSOR DODGE, PROFESSOR CLARK, ASSISTANT PROFESSOR BALDWIN, DR. SHERMAN, MISS KYLE, MISS BRADFORD, MR. VAN DOREN

ENGLISH LITERATURE

S 3. SHAKSPERE'S CONTEMPORARIES.—Plays of Marlowe, Kyd, Greene and Jonson. *Daily;* (2½). Dr. SHERMAN.

S 7. NINETEENTH CENTURY POETRY.—Special attention will be paid to Tennyson. *Daily;* (1⅔). Miss KYLE.

S 8. HIGH SCHOOL ENGLISH.—Some of the books in English Literature required for entrance to the University will be studied with reference to their use in the school room. *Three periods a week;* (1½). Professor DODGE, Assistant Professor BALDWIN, Dr. SHERMAN.

S 11. Contemporary Writers.—Some of the literary movements of the present day are traced in the works of living novelists, essayists and dramatists. *Daily;* (2½). Professor Dodge.

S 14. Elementary Shakspere.—Rapid reading of a number of plays. *Daily;* (1½). Dr. Sherman.

S 15a. Select Periods of English Literature.—This course and S 15b may be taken as an equivalent of English 1, as outlined in the University catalog. *Either four or eight times a week;* (2 or 4). Assistant Professor Baldwin.

S 15b. Select Periods of English Literature.—This course and S 15a may be taken as an equivalent of English 1, as outlined in the University catalog. *Either four or eight times a week* (2 or 4). Mr. Van Doren.

S 19. Historical English Grammar.—Problems of modern grammar will be studied in their relation to the earlier periods of the language. *Daily;* (2½). Professor Dodge.

S 20. Literary Study of the Bible.—The literature of prophesy. This will be a study of the work of the leading prophets of the Old Testament, Amos, Hosea, Isaiah, and Micah, with emphasis upon the literary forms of prophecy; and with an attempt to estimate the contribution of each to the ethical equipment of the race. *Daily; first six weeks;* (1⅔). Assistant Professor Baldwin.

Properly prepared students may take additional work in several of the above courses, after consultation with Professor Dodge, by registering in one of the research courses, 101.

RHETORIC

S 1. Rhetoric and Themes.—The work of this course will be similar to the work in English composition required of freshmen in the University. *Daily;* (3). Mr. Van Doren.

S 3. Daily Themes.—Short themes, from one to two pages in length, every day, with exercises not to exceed four pages in length every fortnight. Bates's *Talks on Writing English* (First series). *Three meetings a week;* (2). Professor Clark.

By special arrangement (4) four hours' credit may be made in this course.

S 5. Extempore Speaking.—*First six weeks; three periods a week;* (1). Professor Clark.

S 7. Public Speaking.—A study of the principles underlying public speaking, supplemented by exercises in correct breathing, vo-

calization, action and position. Text book and declamations. *Four periods a week;* (2). Miss Bradford.

S 8. Theme Correcting.—A course primarily for teachers of English composition. Lectures, discussions, and written exercises. The object of the course is to develop the most helpful and suggestive methods of correcting themes. The actual work of students in the high schools of the State will be utilized in this course. *Three meetings a week; first six weeks;* (1). Professor Clark.

S 13. Theory and Practice of Debating.—Text book and debates. *Two periods a week;* (1). Miss Bradford.

S 20. Shakesperean Reading.—Hamlet or Macbeth. Henry IV or Coriolanus. Merchant of Venice or Twelfth Night. Selected scenes memorized, and given from the platform. *Daily;* (2½). Miss Bradford.

S 21. The Forms of Discourse.—A study of the principles of narration, description, exposition, and argumentation. Selected models will be used to illustrate these principles, and to serve as examples of themes. Some attention will be given to the adaptation of this course to the needs of teachers of composition in secondary schools. Three short themes a week and a long theme every fortnight will be required. This course will be accepted for the second semester of Rhetoric 1, as outlined in the regular University catalog. *Daily;* (3). Miss Kyle.

ENTOMOLOGY

Dr. Folsom, Mr. Tanquary

S 1. General Field and Laboratory Course.—A course intended to give the student such field and laboratory operations and observations as will make him practically acquainted with the most important economic insects as well as with the various lines of personal work in the insectary and in the field. A study of the field of entomology; its most important contents as material for high school instruction work and for economic work in the rural schools. A well equipped insectary will be available, and frequent field excursions will be made under the leadership of the instructor. *Daily;* (2½). Dr. Folsom.

S 2. Advanced Course.—This course, consisting chiefly of field and insectary work on economic and ecological subjects, is open to those who have had course S 1 or its equivalent. *Daily;* (2½). Dr. Folsom.

FRENCH

Mr. Fortier, Dr. Jones

S 1. Beginners' Course.—Pronunciation, grammar, composition, reading of easy texts. *Daily;* (2½). Dr. Jones.

S 2. Reading of Modern French.—A course in rapid reading of modern authors for students who have had the equivalent of a year's elementary French. *Daily;* (2½). Dr. Jones.

S 3. Supplementary Work.—Under the direction of the instructor, competent students may supplement the work of either of the preceding courses so as to make S 1 the equivalent of the first semester of the regular University course 1, or course S 2 the equivalent of the first semester of course 2 of the regular University year. Mr. Fortier.

S 4. Rousseau.—His life. His individualism. Origin of his theories. His influence. Nature sense. Realism. Lectures, reports on collateral reading. *Two hours a week;* (1, *or more by arrangement*). Mr. Fortier.

S 5. Advanced Prose Composition and Conversation.—An advanced course aiming to give some facility in writing and speaking idiomatic French. Themes on France and French life based on suitable reading, discussed in French. Designed chiefly for students intending to teach French. *Two hours a week;* (1, *or more by arrangement*). Mr. Fortier.

GEOGRAPHY

Mr. Knirk

A. Physiography of the Lands.—Designed especially for those who wish to prepare themselves as teachers of this subject. *Lectures M., W., F. at* 1:00. *Laboratory and field trips Tu., Th. afternoons and all day Sat.* (3).

B. Meteorology, Oceanography, Climatology.—An advanced course for students who have had course A, or its equivalent. *M., W., F.,* 2:00 to 4:00. (1½).

GERMAN

Assistant Professor Meyer, Dr. Wiehr, Miss Jaeck

S 1. Beginners' Course.—Pronunciation, grammar composition, reading of easy texts. *Daily;* (2½). Two sections. Dr. Wiehr, Miss Jaeck.

S 2. Intermediate Course.—Grammar, composition, reading of texts. Open to those who have had German 1 of the regular University year, or who have from any other source an equivalent preparation. *Five times a week;* (2½). Dr. Wiehr.

S 3. Prose Reading.—Reading of narrative prose, sight translation, composition. Open to students who have had German 3 of the regular year, or who give evidence of satisfactory preparation for the course. *Five times a week;* (2½). Assistant Professor Meyer.

S 4. Schiller.—Reading of one or more of Schiller's dramas and selected lyrics and ballads. *Five times a week;* (2½, *or more by arrangement*). Assistant Professor Meyer.

S 5. Advanced Prose Composition.—An advanced course aiming to give some facility in writing and speaking idiomatic German. Themes on Germany and German life and literature based on suitable reading, discussed in German. Designed chiefly for students intending to teach German. *Two hours a week;* (1, *or more by arrangement*). Dr. Wiehr.

S 6. Supplementary Work.—Under the direction of the instructor, competent students may supplement the work of S 1, so as to make it the equivalent of course 1 of the regular University first semester or of S 2 the equivalent of regular course 3, or of S 3 the equivalent of regular course 4. Assistant Professor Meyer.

HISTORY

Assistant Professor Alvord, Dr. Larson, Dr. Paetow

S 5. Modern European History.—A general introductory survey from the Peace of Westphalia in 1648 to the present time. Special emphasis will be laid on the era of Louis XIV, the French Revolution, and the liberal movements of the nineteenth century. *Daily; first six weeks;* (2). Dr. Paetow.

S 6. American History, 1606-1789.—The founding of the thirteen colonies; colonial life and institutions in the eighteenth century; the conflict of France and England for the control of North America; the American Revolution; the making of the Federal Constitution. *Daily;* (2½). Dr. Larson.

S 7. Mediaeval England.—A careful study of the more significant aspects of mediaeval civilization as illustrated in the history of England. Open to students who have had at least one college course in history or its equivalent. *Daily* (2½). Dr. Larson.

S 8. The Era of the Renaissance.—The political, religious and economic history of Europe during the fourteenth and fifteenth centuries will be considered as well as the intellectual and artistic revival. *Daily; first six weeks;* (2). Dr. Paetow.

S 9. The West, 1763-1790.—This is a somewhat advanced course covering the British occupation, the revolutionary period, Virginia government in the Illinois country, and the inauguration of federal jurisdiction in the northwest territory. Considerable stress will be laid upon the use of original material and special attention will be given to Illinois history. *Daily; first six weeks;* (2). Assistant Professor Alvord.

Summer School of History

The attention of students especially interested in history is also directed to the Summer School of History, to be held at the University from June 22 to July 31, 1908. Courses appropriate for graduate and other specially qualified students will be offered. Professor James Harvey Robinson, of Columbia University, has been appointed visiting professor of European history, Professor Edward P. Cheyney, of Princeton University, has been appointed visiting professor of English history, and Professor Evarts B. Green will give advanced courses in American history. Special emphasis will be laid upon opportunities for informal conferences with instructors.

HOUSEHOLD SCIENCE

Miss Pincomb

S 1. Food.—The work in this course will consist of lectures, laboratory work and quiz. Demonstrations will be given in connection with the laboratory work. *Daily;* (1½).

S 2. The House.—In this course the plan, decoration and care of the house will be considered. *Three meetings a week;* (1).

S 3. Organization and Equipment.—This course will include work in both domestic science and domestic art. They will be considered from the standpoint of their relation to other subjects in the school curriculum; kind and cost of equipment and methods of presentation will be considered. *Two meetings a week;* (1).

Note.—In view of the desire expressed by the teachers who participated in the conference on domestic science in the public schools

the work in the Summer Session is planned with special reference to the needs of such teachers. The problems of the rural school teacher will also be considered.

LATIN

Professor Barton

S 1. Latin Composition.—Continuous prose with such preliminary drill in isolated sentences as may be necessary. *Two periods a week;* (1). Professor Barton.

S 2. Sallust.—The Jugurthine War with some comparison of the style of Sallust with that of Livy and Tacitus. *Three periods a week;* (1½). Professor Barton.

S 3. Ovid.—Selections chiefly from the Faste Roman Religion. *Three periods a week;* (1½). Professor Barton.

S 4. Teachers' Course.—Reasons for the study of Latin in high schools, its present position in school programs, value as discipline, as literature, as an introduction to Roman life and institutions, the teacher's preparation, lists of books, photographs, lantern slides and stereopticon views. Illustrated lectures on subjects connected with Latin authors read in the high school. *Two periods a week;* (1). Professor Barton.

MATHEMATICS

Associate Professor Wilczynski, Mr. Ponzer, Miss White, Mr. Emmons

ELEMENTARY MATHEMATICS

S E 1. Solid Geometry.—Special emphasis will be placed upon original demonstrations and upon the cultivation of space tuition. Any standard text in geometry may be used. *Daily;* (3). Mr. Emmons.

COLLEGE MATHEMATICS

S 2. Advanced Algebra.—This course will be equivalent to that offered in the University on the same subject. The work will cover the following topics:

Progressions, binominal theorem, undetermined coefficients, partial fractions, permutations and combinations, imaginaries, logarithms, and the elements of the theory of equations. *Daily;* (3) Associate Professor Wilczynski.

S 4. Plane Trigonometry.—This course will be equivalent to that offered in the University on the same subject. *Daily;* (2). Mr. Ponzer.

S 5. Teachers' Course.—In this course special attention is given to a discussion of the methods of teaching algebra and geometry, the position of mathemetics in the secondary school course, the correlation of mathematics with allied subjects, a comparative study of the leading text books, and a brief history of elementary mathematics. *Daily;* (3). Miss White.

S 6. Analytical Geometry.—The problems of geometry can be formulated and treated analytically, those of analysis can be treated geometrically. In this course algebra and geometry are united. The main topics to be discussed will be the equations of the first and second degree, and their geometric interpretation. Other loci will also be treated. There will also be a brief account of the analytical geometry of three dimensions. *Daily;* (2½ to 5). Miss White.

S 7. Differential Calculus.—This course is equivalent to that offered in the University as Mathmetics 7. *Daily;* (2½ to 5). Mr. Emmons.

S 9. Integral Calculus.—This course is equivalent to that offered in the University as Mathematics 9. *Daily;* (3). Mr. Ponzer.

S 33. Differential Geometry.—Applications of the calculus to the general theory of curves and surfaces. The course will be based on Scheffers' *Anwendung der Differential und Integral Rechnung aux Geometrie. Daily;* (3). Associate Professor Wilczynski.

MECHANICS, THEORETICAL AND APPLIED

Mr.————

S 7. Analytical Mechanics.—This course includes the first half of Analytical Mechanics as given in Maurer's *Technical Mechanics. Daily;* (3).

Prerequisite: Mathematics 7 and registration in Mathematics 9.

S 8. Analytical Mechanics.—This course includes the second half of Analytical Mechanics as given in Maurer's *Technical Mechanics. Daily;* (2½).

Prerequisite: Mathematics 9 and T. & A. M. 7.

S 9. Resistance of Materials.—This course covers the same ground both in text book, problem work and in experiments in the

materials testing laboratory as T. and A. M. 9. *Daily in class room and two double periods in laboratory;* (3½).

Prerequisite: T. and A. M. 7 and registration in T. and A. M. 8.

MECHANICAL ENGINEERING

Assistant Professor Gill, Mr. Scroggin, Mr. Lanham, Mr. Ellis

S 1a. Pattern Shop.—This course will be the equivalent of that offered in the University on the same subject. It will include the care and use of tools, as well as the construction of exercises, wood turning, pattern and core-box making, and some cabinet work. *Daily;* (3). Mr. Ellis.

S 1b. Forge Shop.—This work will include a series of exercises in forging, welding, tempering, and annealing. (1½). Mr. Lanham.

S 2. Machine Shop Practice.—In this course there will be a series of lectures on machine tools. The student will be taught to operate the various kinds of tools, such as the drill press, lathe, planer, shaper, boring mill, milling machine, grinding machine, screw machine, and gear cutter. Visits of inspection to shops in the adjoining cities will be made. (2½). Mr. Scroggin.

PHILOSOPHY

Professor Daniels

S 1. Method of Thought.—A critical analysis of terms, propositions and syllogistic reasoning. The nature of proof and evidence. The principles of scientific method. *Daily;* (2½).

S 2. Ethical Ideals.—An historical study of philosophic thought in ancient, mediaeval and modern times, with special reference to the problem of human conduct. The course will include, as an introduction, some study of the beginnings of reflective thought on ethical questions, in the race and the individual. *Daily;* (2½).

PSYCHOLOGY

Assistant Professor Baird

S 1. Elementary Psychology.—A beginners' course which aims to serve as a basis for further study in psychology, education, and philosophy. *Daily; first six weeks;* (2).

S 2. Introduction to Experimental Psychology.—Experiments in sensation, perception, memory and imagination. *One lecture a week and three laboratory periods; first six weeks;* (1). (May be taken in connection with S 1. Regular University students may count these combined courses as equivalent to Psychology 1).

S 3. The Psychology of the Learning Process.—A critical discussion of the problems of acquisition, memory, and imagination. *Three hours a week; first six weeks;* (1).

PHYSICS

Assistant Professor Knipp, Mr. Stempel, Mr. Stifler, Mr. Stephenson

S 2a. General Physics.—Lectures with experimental illustrations and recitations. The topics treated in 1908 will be electricity and magnetism. *Daily;* (1½). Mr. Stifler.

Prerequisite: Plane geometry and high school algebra.

S 2b. General Physics Laboratory.—A laboratory course in electricity and magnetism to accompany S 2a. *Three two-hour periods a week;* (1½). Mr. Stifler and Mr. Stephenson.

Prerequisite: Plane geometry and high school algebra.

S E 18. Teachers' Course.—Discussion of practical problems that confront the teacher in high school physics. A laboratory course in physics suitable for the high school will be outlined and some of the experiments performed. *Two two-hour periods each week;* (1). Mr. Stifler.

S 4. Electrical and Magnetic Measurements.—Laboratory exercises with discussions and recitations. It is taken during the fall and winter semesters by junior students in electrical engineering and is recommended to others wishing an exact course in electrical and magnetic measurements. *Three three-hour periods a week for six weeks.* (1). Assistant Professor Knipp.

S 31. Investigation of Special Problems.—An advanced course in the laboratory or in design and calculation. A problem is chosen and worked out with the advice and direction of the instructor. *Six weeks.* (1 or 2). Assistant Professor Knipp.

S 33. Seminary and Thesis.—This course is primarily for graduate students. *Six weeks.* (1 or 2). Assistant Professor Knipp.

PHYSICAL TRAINING

Mrs. Lincoln, Mr. Hana, Miss Williams, Miss Moulton, Mr. Hachmeister

FOR WOMEN

S 1. Practice.—The aim of this course is to enable students to overcome, by means of corrective and educational gymnastics, faulty posture and growth, and to develop a healthy body. Elementary gymnastics, marching, Swedish free exercise, dumb bells, clubs, wands, fancy steps, simple exercises on various pieces of apparatus, tennis, basket-ball, hockey, golf, games. *Daily.* Mrs. Lincoln, Miss Moulton.

S 2. Practice.—This course offers opportunities for teachers who desire special instruction in Theory and Practice, and in special lines of work. Public school methods and supervision, free and light gymnastics, dumb-bells, wands, gymnastic dancing, May-pole concerted figures, artistic gymnastics, out-door athletics. Folk dances and games. Classes will be formed in special subjects, as desired. *Daily.* Mrs. Lincoln, Miss Moulton.

S 3. Personal Hygiene, and First Aid to the Injured.—This course considers personal health and those practical hygienic problems of every day life that are wholly or in large part under the control of the individual; structure and functions of the human body, improvement of health, prevention of disease, and general personal care. Methods of first aid to the injured. *Two periods a week.* Mrs. Lincoln, Miss Moulton.

S 4. Swimming.—The swimming pool of the gymnasium will be open daily, affording opportunity for instruction and practice.

FOR MEN

S 1. Gymnasium Practice.—Setting up exercises, practical elementary class drills with dumb-bells, wands, clubs, and chest weights, and elementary heavy apparatus work. *Three periods a week.* Mr. Hana.

2 S. Gymnasium Practice.—Intermediate and advanced heavy apparatus work. *Three periods a week.* Mr. Hana.

S 3. Lecture.—Personal hygiene. Lectures upon bodily health, including such subjects as the bath, sleep, diet, injuries from overwork and study, sedentation, tobacco, alcohol, sexology. *Once a week.* Mr. Hana.

S 4. Swimming.—The large pool in the Gymnasium offers ample facilities for swimming. *Daily.* Mr. Hachmeister.

POLITICAL SCIENCE

Mr. McGovney

International Law.—The origin and development of international law; its nature especially in regard to its obligatory force; sovereignty; equality of states; their jurisdiction over their territory, the high seas, and over persons, subjects and aliens; immunities from jurisdiction, conventional and diplomatic relations; duties and privileges of ministers, consuls, etc.; arbitration; and the rules of war, governing belligerents and neutrals. Especial attention will be given to important topics in the history of American diplomacy. T. J. Lawrence, Principles of International Law; J. B. Moore, American Diplomacy. Students will also be required to read J. W. Foster's Practice of Diplomacy. *Daily,* (2½).

Elements of American Constitutional Law.—This course will not presuppose any training in law, and is intended for the general student interested in enquiring, a little more deeply than is possible in the usual courses on government, into the law controlling the operations of our governmental system and protecting the private rights of the citizen. Teachers of government will find this course adapted to their needs. Cooley's Principles, third edition; Boyd's Cases on American Constitutional Law, second edition. *Daily;* (2½).

RHETORIC

(See English)

SPANISH

Mr. Fortier

S 1. Beginners' Course.—Pronunciation, grammar, composition, reading of easy texts. *Daily;* (2½).

S 3. Supplementary Work.—An opportunity is offered to do supplementary work in Spanish similar to that described above for French.

ZOOLOGY

Dr. Peters, Mr. Gross

S 1 or S E 1. Elementary Zoology.—Types of vertebrate and of invertebrate animals will be studied from the ecological, mor-

phological, and physiological points of view. The laboratory work will be done on those types most useful in high school courses. This course is intended to serve the purposes of the high school teacher, and also as an introduction to any University work in this department. Students who desire University credit for Zoology 10 must arrange with the instructor to do the required work. *Daily; two periods;* (2½). Dr. Peters, Mr. Gross.

S 3. Field Zoology and Ornithology.—A course in which the major part of the attention will be given to the observation and identification of birds and other animals of the vicinity, which are of most interest to teachers. (For field work on insects, see the description of courses in Entomology). *Two meetings a week; two periods;* (1). Mr. Gross.

Students who are taking either of the courses in zoology may make field trips with Mr. Gross for bird study on Saturday forenoons, when the weather permits, and do museum work on other Saturday forenoons and receive additional credit. (2½).

S 4. Zoological and Physiological Methods.—This course will provide both instruction and practice in selected methods used in the study and teaching of zoology and physiology. Students may select any part of the work sufficient to occupy the full time of the course. *Three meetings a week; two periods;* (2). Dr. Peters.

Prerequisite: S 1 or its equivalent.

MILITARY SCIENCE

Edmund Gustave Fechet, Lieut. Col. U. S. A. (Retired), Commandant

The military instruction is under the charge of an officer of the United States Army. The course as a whole has special reference to the duties of officers of the line. A full supply of arms and ammunition is furnished by the War Department, including 1200 1898 U. S. magazine rifles and accoutrements, two field pieces of artillery, and full equipment for a Signal Corps and a Hospital Corps.

Every male student, under twenty-five years of age, able to perform military duty, and not excused for sufficient cause, is required to drill twice each week until he has gained credit for four semester hours. He is also required to study Drill Regulations for Infantry and to recite upon the text once a week until he gains credit for one semester hour.

On petition, properly approved, special students may postpone their military for not more than two semesters. The practical instruction begins as soon as possible after he enters the University. The standings in study and drill are placed on record, with other class credits; one semester of recitations and drill count two hours, and the three remaining semesters of drill three hours, and are requisite to graduations in every University course.

The regiment, three battalions of four companies each, is composed mainly of the members of the freshman and sophomore classes. The non-commissioned officers are usually selected from the sophomore class, the lieutenants from the junior class, and the field officers and captains from the senior class and graduate school. There are 1200 cadets and 100 officers in the regiment.

Artillery and Signal detachments are organized mainly from the second year, or sophomore class, which receives practical instruction twice each week during the college year.

A special military scholarship, good for one year, is open to each student who attains the grade of a commissioned officer, the

value of which is paid the holder at the close of the year. Appointments in the regiment are made on nomination by the officer in charge and confirmation by the Council.

Toward the close of the year a committee appointed by the Council examines candidates for nomination to the Governor of the State to receive commissions as brevet captains in the state militia. Candidates must be members of the senior class in full standing at the time of this examination; must have completed the course of military studies; must have served four semesters as commissioned officers, and must be approved by the Council as having good reputations as scholars, officers, and gentlemen.

The uniform is of cadet gray, coat trimmed with black mohair braid, trousers with black cloth stripe, cut after the U. S. Army pattern. In order that all uniforms worn at this University may be, in quality, make, and finish, in strict accordance with the specifications adopted by the Board of Trustees, all students enrolled in the military department are required to obtain them from that firm only that may, for the time being, be under agreement and bond with the Trustees to furnish said uniforms at a stated price and of standard quality.

The University Military Band is composed of students, and every full term of service therein is counted as one term of drill.

PHYSICAL TRAINING

GEORGE A. HUFF, Director
MRS. JENNETTE CARPENTER LINCOLN, Director

FOR MEN

The main object of the work of this department is to preserve and improve the bodily health of the students by careful physical examinations, and rational prescriptions of exercises; by correcting physical deformities and imperfect development; by teaching proper intercollegiate sports.

Each student is required to undergo a physical examination so that a correct knowledge of his bodily condition may be obtained, and proper exercises prescribed. Regular classes are formed in swimming and fencing and for drill on the various gymnasium appliances. Lectures are given upon personal hygiene.

All competitive athletic games are under the direct supervision of the director of physical training, and his examination is required to show that membership on any team will not cause injury, but will tend to improve the physical condition. No student whose class work is unsatisfactory is allowed to play on a University team.

FOR WOMEN

The general health and development of the young women are looked after. Each student is given an examination in order to ascertain her physical condition; suitable exercise is prescribed, and advice given.

The work of the gymnasium is adapted to meet individual needs by organized progressive training according to the best known methods. The work embraces corrective, hygienic and recreative exercise, including free and light gymnastics, marching fancy steps, dumb-bells, clubs, wands, games, may-pole, basket-ball, swimming, etc. Out-of-door sports—tennis, hockey and golf,—are played in season.

The gymnasium is open at certain hours to all women of the University, under suitable restrictions. The uniform consists of navy blue serge regulation gymnasium suit, and gymnasium shoes.

The swimming pool is open daily, except Saturday, from 10-12 a. m. and from 2-5 p. m. The regulation swimming suit of one piece, must be made of either denim, or mohair.

For a description of the gymnasium and the out-of-door play grounds see pages 10-11.

COLLEGE OF LAW[1]

FACULTY

EDMUND J. JAMES, PH.D., LL.D., President

OLIVER A. HARKER, A.M., DEAN, Professor of Law
THOMAS W. HUGHES, LL.M., Professor
FREDERICK GREEN, A.M., LL.B., Professor
GEORGE L. CLARK, A.B., LL.B., Professor
BARRY GILBERT, A.B., LL.B., Professor
ELLIOTT J. NORTHRUP, A.B., LL.B., Associate Professor
DUDLEY O. MCGOVNEY, A.M., LL.B., Instructor

ADMISSION

For admission to the College of Law an applicant must be at least 18 years of age and of good character, and must offer credit for fifteen units of high school or other preparatory work. These fifteen units must include the following:—

Algebra	1½ units
English composition	1 unit
English literature	2 units
Geometry, plane	1 unit
English and American History	1 unit

The remainder of the fifteen units must be made up from the subjects in List B. (page 23). For the amount of work in these subjects necessary to count as the fifteen units of credit required see pages 24ff. For the various ways in which this credit may be secured see pages 30ff.

Graduates of colleges and of scientific schools of approved standing are admitted upon diploma or certificate without examination.

ADVANCED STANDING

The following classes of persons are admitted to advanced standing:

[1] A special circular describing the work of the College of Law in detail may be obtained on application to the Registrar.

1. Persons who produce from another law school, in good standing, certificates of having satisfactorily pursued courses in law, included in the following schedule, and of having received credit therein, *provided* that the time spent on such courses is equivalent to the time spent on the same coursese in this College. Otherwise, an examination on such courses, given by the instructors in this College, must be satisfactorily passed.

2. Persons who have studied law privately, or in an attorney's office, and pass examinations prescribed by the faculty of the College.

3. Members of the bar of this state, who will be admitted to the third-year class without examination.

Special Students

Students who do not desire to be candidates for a degree may take one course or more as special students, upon approval of the faculty of the College, under regulations prescribed by the University. Such students receive credit for work satisfactorily done, and may become candidates for graduation at any time by meeting the requirements of the College.

METHODS OF INSTRUCTION

The methods of instruction used in this College are based largely upon the study of cases. Text-books are used to some extent, and lectures are occasionally resorted to, but the study of the case is regarded as the chief means of the attainment of legal knowledge and proficiency.

LIBRARY AND MOOT COURT

The library consists of the leading text-books on all subjects: United States Supreme Court Reports; English Reports; Reports of the various states of the Union; American Decisions; American Reports and American State Reports; the current volumes of the West Company Reporter System, and the leading legal periodicals.

The Moot Court is held once a week for the purpose of familiarizing the student with legal procedure. It is presided over by the Dean, Judge O. A. Harker, the other officers being elected by the law students from their own body. All second and third year students are required to be present, and to perform such duties as may be assigned them.

LEGAL STUDY AND UNIVERSITY WORK

The Council of Administration will, upon application, in proper cases, apply credits earned in the College of Law upon other University courses.

Students registering in the College of Law may take any of the following courses: Economics, social science, and history, subject to the approval of the Dean of the College of Law and the professors concerned. By special arrangement other work in the College of Literature and Arts may also be taken.

COURSE OF INSTRUCTION

Leading to the Degree of LL.B.

FIRST YEAR

1. Contracts (Law 1); Torts (Law 2); Real Property (Law 3); Criminal Law (Law 5); Personal Property (Law 6).

2. Contracts (Law 1); Torts (Law 2); Real Property (Law 3); Common Law Pleading (Law 4); Domestic Relations (Law 7).

SECOND YEAR

1. Evidence (Law 8); Real Property (Law 10); Equity (Law 12); Damages (Law 13); Carriers (Law 14); Moot Court (Law 26); Quasi-Contracts (Law 32).

2. Sales (Law 9); Agency (Law 11); Equity (Law 12); Wills (Law 18); Equity Pleading (Law 20); Moot Court (Law 26).

THIRD YEAR

1. Illinois Procedure (Law 4a); Trusts (Law 16); Corporations, private (Law 17); Suretyship (Law 21); Constitutional Law (Law 22); Moot Court (Law 26).

2. Bills and Notes (Law 15); Corporations, private (Law 17); Partnership (Law 19); Mortgages (Law 23); Corporations, municipal (Law 24); Bankruptcy (Law 25); Insurance (Law 28); Conflict of Laws (Law 31); Quasi-Contracts (Law 32); Moot Court (Law 26).

REQUIREMENTS FOR GRADUATION

Candidates for graduation with the degree of Bachelor of Laws are required to present credits for all the work of the first year; for courses 8, 10, 11, 12, 18, 20, and 26, and 7 units of credit from

the following elective courses: 9 (3 units), 13 (2 units), 14 (2 units) 32 (2 units), in the second year list; and for course 26, together with 24 additional units, made up from the third year list. The units of credit for subjects in the third year list are as follows:—15 (2 units), 16 (3 units), 17 (4 units), 19 (2 units), 21 (3 units), 22 (4 units), 23 (2 units), 24 (2 units); 25 (2 units); 28 (2 units); 31 (2 units); 32 (2 units).

Candidates for the degree of Bachelor of Laws who register in the College of Law after February 1, 1908, in addition to the above law credits, will be required to present credits for one full year's work in the College of Literature and Arts or the College of Science, or the corresponding department of another University or college of recognized standing; or attain in the law courses which they present for the degree an average grade of 85 on the scale of 100. This rule does not apply to members of the Illinois Bar who are entitled to the third year class and may receive the degree of Bachelor of Laws upon satisfactory completion of the work of that year.

COLLEGE OF MEDICINE

For the Faculty of the College of Medicine see Faculty.

HISTORY

The College of Medicine, the College of Physicians and Surgeons, is located on the corner of Congress and Honore streets, Chicago, in the heart of the medical quarter of the city. It was founded in the year 1882 by a number of representative physicians and surgeons. In 1892 the College had a thorough reorganization, and erected a commodious laboratory building, the first building exclusively for laboratory purposes erected by any medical school in the West. Since that time it has grown with steadiness and rapidity. It became the Medical Department of the University in April, 1897.

Chicago is the center of medical study in the United States. Since the winter of 1897-98 it has contained a larger number of medical students than any other city in the western hemisphere. These students are distributed among fourteen medical colleges, of which the College of Physicians and Surgeons is among the first as to the size of its classes, and is in the front rank in respect to its facilities, the scope and thoroughness of its curriculum and in regard to the place it occupies in the esteem of the medical profession.

BUILDINGS, LABORATORIES, AND EQUIPMENT

In the summer of 1901 the College purchased from the Board of Education of Chicago the West Division High School property, situated adjacent to the original college building. This purchase, which represents, including alterations, an expenditure of over a quarter of a million of dollars, gives the College three-fourths of a city block lying between Harrison and Congress, and Honore and Lincoln streets. The new College building is a brick and stone structure two hundred feet long by one hundred and ten feet deep, and five stories high. It fronts on four streets and stands on a lot entirely adequate in size for such a building, so that it is freely

supplied with air and light. The building contains three large lecture rooms with a seating capacity of two hundred each, a clinical amphitheater modeled on modern plans for perfect asepsis, with a seating capacity of over three hundred; an assembly hall with a seating capacity of seven hundred, and many recitation rooms seating from thirty to fifty students each. A three-story annex to the main building, especially designed and constructed for laboratory use, is devoted to the departments of biology, histology, embryology, pathology, bacteriology, and chemistry; the departments of materia medica, therapeutics, physiology, microscopical and chemical diagnosis occupy quarters in the main building. All of these laboratories have unobstructed outside light. The accommodations are ample, so that each student has a generous allotment of light, air and working space. The laboratories are furnished with convenient and substantial work tables, desks and lockers, and are equipped with the most modern apparatus. There is an abundant supply of microscopes and lenses, including as many oil immersions as are needed. There is a new projection apparatus for the illustration of lectures in pathology and other departments by means of stereopticon views. The general equipment of the building and the special equipment of the laboratories are in keeping with the size and character of the building. The assembly hall is so constructed that it may be converted into a gymnasium. Indeed the essential appliances of a well-equipped gymnasium, including a number of shower baths, are already installed and are in daily use.

REQUIREMENTS FOR ADMISSION*

First, a certificate of good moral character from two reputable physicians, and:

Second, a diploma of a State normal school, an accredited high school or the academy of the University of Illinois, or of a similarly accredited school of another university, whose entrance requirements are equivalent to the entrance requirements of the University of Illinois.

Third, a certificate of admission to a literary or scientific college whose standards are equal to those of the University of Illinois.

Fourth, a certificate of successful examination conducted by a State Board of Examiners, whose standards are at least equal to

*Students must file in the secretary's office, at the time of entrance, documentary evidence of compliance with the requirements for admission.

those of an accredited high school of the University of Illinois; or

Fifth, a certificate signed by an acceptable principal of an accredited high school or by the examiner of the faculty of a recognized literary or scientific college or university, or by the State or City Superintendent of Public Instruction, or a Superintendent of Public Schools, of having successfully passed an examination in all the branches embraced in the curriculum of a four years' course of an accredited high school.

Admission as Special Students

Students not candidates for graduation may take special work after satisfying the Secretary that they possess the requisite training to pursue such work profitably. Such students are required to pay the matriculation fee of $5.00, and a breakage deposit of $20.00 for the winter term, and in addition $10.00 or $20.00 per term, according to the amount of work taken in each course of study. *Special students are not given credit for time.*

Advanced Standing

Students who present evidence of having attended one or more years at other medical institutions in good standing with the Illinois State Board of Health, and of having complied with the entrance requirements of this College, may be admitted to advanced standing, and receive credit for time and also for work done, if such work be equal to that offered by this college. *Students thus advanced may not complain of any conflict of hours nor absent themselves from any part of the lower conflicting course;* but they make up deficiencies in the work of one term in any other term in which such work is offered.

Graduates of medical colleges in good standing with the Illinois State Board of Health, who have passed the examination of said Board, may be admitted to the graduating class without examination by complying with all the other requirements of undergraduates.

Examinations for advanced standing are held *only during the week* immediately preceding the opening of the term.

REGISTRATION

Students are required to register in the office of the Secretary immediately upon the opening of the term for the work in that term, and credit will be allowed only in the branches in which the

students are registered. Students will be registered in the order in which their fees are paid.

ARRANGEMENT OF THE COURSE

The collegiate year is divided into two terms, called respectively the winter term and the summer term. The *winter* term consists of a session of thirty-six weeks, beginning the latter part of September, 1908, and ending early in June, 1909, at which time the annual graduating exercises will be held. Attendance upon the full winter term is required in order to secure credit for a year's work, and attendance upon four winter terms is required for graduation. The *summer* term consists of a session of twelve weeks, beginning immediately after the close of the winter term. The schedule for the summer term may be had on application. This course is open to both graduates and undergraduates. It affords opportunities to practitioners to do work along special lines. Undergraduates who attend it will receive credit for the same, either toward making up any study in which they are deficient; or as a credit toward the work of the next session, except in the studies of the senior year which will be final only for those who have taken a previous course of instruction in those studies. Summer students are given scholarship credit, but the time does not apply on the required time for graduation.

The student is offered his choice of the following courses:

He may take the entire course of four years offered in the College of Science at Urbana, followed by four full years in the Medical College in Chicago, making a continuous course of eight years.

A second, six-year course may be made up by taking the first three years of the medical course in the College of Science at Urbana, and the last three years in the Medical College at Chicago. This furnishes a medical course of six years, with two degrees—Bachelor of Science at the end of the fourth year, and Doctor of Medicine at the end of the sixth year.

The student may, in the third place, take the four years of the medical course as it is offered in the Medical College in Chicago alone. During the first two years of this regular course the work is confined to the sciences fundamental to practical medicine. During the freshman year this consists of work in histology, biology, embryology, chemistry, materia medica, human anatomy, physiology and bacteriology. During the sophomore year the study of physiology, chemistry and human anatomy is continued, and in ad-

dition the student takes up pathology and therapeutics. With the junior year the study of the practical branches of medicine is begun. The student also begins clinical and bed-side work, and receives instruction in medical and surgical specialities. During the junior and senior years 1,000 hours of work are required in each year. Of this 1,000 hours, approximately 500 are "specified," and the remainder "elective." This plan permits a student to specialize along the lines best suited to his purpose. A certain amount of clinical work is required, but the student is permitted to elect the work offered by all clinical teachers and permitted to attend all lectures and clinics.

THE SIX-YEAR COURSE

Students wishing so to combine their work in general science with their professional studies in medicine as to receive both degrees may accomplish this purpose by pursuing at the University in Urbana three years of work, including a year of medical studies, and then continuing their medical work at the Medical Department in Chicago.

The first three years must include all of the subjects in the general prescribed list, page 82, and the following list of studies, especially prescribed for this course:

Chemistry 9c; 2 hours
Botany 5; 5 hours
Latin 1; 4 hours
Physics 2a; 8 hours
Physiology 1, or 1 and 2; 10 or 20 hours
Psychology 1, 9; 5 hours
Zoology 10, 2, 3; 16 hours

1. One year's credit in Latin is required, if Latin has not been offered for entrance.

The *prescribed* studies should be taken according to the prospectus to be found on page 87.

The work of the fourth year is entirely elective.

Students having completed the three years of prescribed work at the University, together with electives sufficient to amount to 97 hours' credit, will be given the degree of bachelor of arts at the commencement next following the completion at the medical college of the work in human anatomy, physiology of the special senses and of the nervous system, therapeutics, general pathology, pathological anatomy, and surgical pathology (virtually one year's work).

The following subjects included in the prospectus all count toward the medical degree:

Chemistry (general, organic, qualitative and quantitative analysis) and Toxicology, Biology, (Zoology), Physiology, Normal Histology, Embryology, and Bacteriology.

Upon the satisfactory completion of the remaining three years of the medical course the University will confer the degree of doctor of medicine.

METHODS OF INSTRUCTION

The curriculum covers four years. During the first two years the time of the student is about equally divided between laboratory and didactic work. The plan of instruction in the College contemplates the freest use of laboratory teaching. Wherever possible, practical laboratory work is made to supplement didactic teaching. Students are taught not only by prepared specimens but they are required to prepare their own specimens from the original material and are thus made familiar with technical methods and competent to carry a technical investigation through all of its stages. During the junior and senior years the time is about equally divided between clinical and didactic work (much of which is done in class room), with a preponderance of clinical instruction in the senior year. This clinical instruction is carried on, as far as possible, with the student at the patient's side. Attendance upon clinics is required in the same way as upon lectures, and the students are graded upon, and given credit for, their work in the clinical courses, just as they are for the work in the didactic and laboratory courses. The students of the junior and senior years are divided into classes for dispensary work, and these classes have instruction in rotation in the various departments of practical medicine and surgery.

Freshman Year

1. Human Anatomy.—Lectures and recitations four hours a week, 144 hours. Laboratory work four hours a week for first semester, six hours a week second semester, 180 hours. Morris' Human Anatomy, 4th edition, Cunningham's Textbook of Anatomy, Piersol, Gray, Eckley's Dissector, Santee's Brain and Spinal Cord, Anatomic Nomenclature, Eckley. Adjunct Professor White.

2. Biology, Histology and Embryology.—Lectures four hours a week, 144 hours. Laboratory work six hours a week, 216 hours.

Bailey, Stöhr, Schafer, Heisler, Huxley, and Martin. Professor Wynekoop, Mr. Wicks, Mr. L. L. Wynekoop.

3. Physiology.—Lectures three hours a week, second semester, 54 hours. Howell's Text-Book of Physiology, Tiegerstadt, Stewart's Manual, or Hall's Text-Book. Professor Dreyer.

4. General Chemistry.—Lectures and recitations four hours a week, 144 hours. Laboratory work six hours a week, 216 hours. Remsen, Simon, Holland, Jones. Adjunct Professor Wentz.

5. Pharmacy and Prescription Writing—Lectures and recitations two hours a week, one semester, 36 hours. Laboratory work two hours a week, one semester, 36 hours. Fantus' *Pharmacy and Prescription Writing.* Adjunct Professor Heintz.

6. Bacteriology.—Lectures two hours a week, one semester, 36 hours. Laboratory work, six hours a week, one semester, 108 hours. Zapffe, Abbott. Reference, Chester. Professor Gehrman, Mr. Bauman.

Sophomore Year

1. Human Anatomy.—Lectures four hours a week, 144 hours. Laboratory work four hours a week first semester, six hours a week second semester, 180 hours. Morris' *Human Anatomy,* 4th edition, Cunningham's *Practical Anatomy,* Piersol, Gray, Santee's *Brain and Spinal Cord,* Baker's BNA, Spalteholz. Professor Santee, Adjunct Professor Kuzink.

2. Physiology.—Lectures six hours a week first semester, three hours a week second semester, 162 hours. Laboratory work three hours a week, 108 hours. Howell's Text-Book of Physiology, Tiegerstedt, Stewart's Manual or Hall's Text-Book. Professor Dreyer.

3. Physiological and Pathological Chemistry and Toxicology.—Lectures and recitations three hours a week, 108 hours. Laboratory work for four hours a week 144 hours. Haliburton, Hawk, Hammersten. Professor Dreyer.

4. Pharmacology and Therapeutics.—Lectures and recitations six hours a week, 216 hours. Laboratory work two hours a week, 72 hours. Cushny, Sollmann, Baruch, Hutchison, Morton. Professor Fantus, Adjunct Professor Heintz.

Course A.—Pharmacology and Medicinal Therapeutics, a course on the action and uses of medicines, the symptoms, morbid anatomy and treatment of poisoning. Four hours a week, 144 hours.

Course B.—Non-Medicinal Therapeutics, including Hydrotherapy, Electrotherapy, Mechanotherapy, Dietetics, and Climatology. Two hours a week for four weeks.

5. General Pathology and Pathological Anatomy.—Lectures two hours a week 72 hours. Laboratory work four hours a week, 144 hours. Delafield and Prudden. Professor Evans, Associate Professor O'Byrne.

6. Autopsies.—Two hours a week, one semester, 36 hours. Professor Evans, Associate Professor O'Byrne.

Junior Year

1. Practice of Medicine.—Recitations six hours a week, 216 hours. Adjunct Professors E. G. Earle, Kearsley.

Course A.—Infectious Diseases and Intoxications 54 hours.

Course B.—Constitutional Diseases and Diseases of the Kidneys, 54 hours.

Course C.—Diseases of the Digestive Organs, 54 hours.

Course D.—Diseases of the Heart and Lungs, 54 hours.

2. Neurology.—Lectures four hours a week, one semester, 72 hours. Mettler, Gowers. Associate Professor Mettler.

3. Physical Diagnosis.—Lectures and personal training in divided classes, each class three hours a week, one semester, 54 hours. Loomis. Professors Brumback, Corwin, Wiggin.

4. Dermatology.—Lectures two hours a week, one semester, 36 hours. Clinics. Pusey. Professor Pusey.

5. Practice of Surgery.—Recitations four hours a week, 144 hours. Rose and Carless. Professors Sherwood, Davison, Adjunct Professors Eisendrath, Humiston.

6. Orthopedic Surgery.—Lectures one hour a week, one semester, 18 hours. Bradford and Lovett, Whitman. Professor Porter.

7. Operative Surgery.—Lectures two hours a week, one semester, 36 hours. Trevis, Bryant, Bickham, Wharton and Ochsner. Professor Fuller; Assistant Professor Seifert.

8. Surgical Pathology.—Laboratory work two hours a week, one semester, 36 hours. Beck. Professor Beck.

9. Laryngology, Rhinology and Otology.—Lectures one hour a week, one semester, 18 hours. Ballenger, Wippern, Kyle, Bacon and Barr. Professor Ballenger.

10. Genito-Urinary and Veneral Diseases.—Lectures two hours a week, one semester, 36 hours. Lydston. Professor Lydston.

11. Clinical Anatomy.—Lectures and demonstrations three hours a week, one semester, 54 hours. Treves, Woolsey and Eisendrath. Adjunct Professor Price.

12. Obstetrics.—Recitations two hours a week, one semester, 36 hours. Bacon's Synopsis, Edgar, Williams, Hirst, Peterson. Professor Yarros; Assistant Professor Simon.

13. Gynecology.—Recitations two hours a week, one semester, 36 hours. Byford, Penrose, Reed, American Text-Book. Adjunct Professors Barrett, Ballard.

14. Microscopical and Chemical Diagnosis. — Lectures and quizes one hour a week, one semester, 18 hours.

Laboratory work in divided classes 10 hours a week, for three week, 30 hours. Emerson, Sahli. Professor Cooke. Adjunct Professor Gardner.

15. Medical Jurisprudence.—Lectures one hour a week, one semester, 18 hours. Reese. Professor Brothers.

16. Dispensary Clinics.—*Three hours a week, one semester, 54 hours.

17. Medical Clinic.—Two hours a week, 72 hours. Professor Wells. 18. *Same.*—One hour a week, 36 hours. Professor Goodkind. 19. *Same.*—One hour a week, 36 hours. Adjunct Professor Harris.

20. Medical Clinic.—One hour a week, 36 hours. Associate Clinical Professor Michel, *Extra Mural.*

21. Neurological Clinic.—One hour a week, 36 hours. Professor Sanger Brown.

22. Dermatological Clinic.—One hour a week 36 hours. Professor Pusey.

23. Surgical Clinic.—*Two hours a week,* 72 hours. Adjunct Professor Eisendrath. 24. *Same.*—One hour a week, 36 hours. Adjunct Professor Eisendrath. 25. *Same.*—One hour a week, 36 hours. Adjunct Professor Heineck. 26. *Same.*—(Orthopedic)—One hour a week, 36 hours. Professor Porter. 27. *Same.*—

*The dispensaries are divided into ten departments. During the Junior year this is in an elective course of instruction in these departments. The work is in small classes and under the direction of members of the Faculty. The student has the opportunity to examine and treat the patients himself under the guidance of the teachers, and thus receive practical experience.

One hour a week, 36 hours. Professor BECK. 28. *Same.*—One hour a week, 36 hours. Assistant Professor HUMISTON.

29. LARYNGOLOGICAL CLINIC.—Two hours a week, 72 hours. Professor BALLENGER. 30. *Same.*—One hour a week, 36 hours. Associate Clinical Professor BROWN.

31. LARYNGOLOGICAL CLINIC.—One hour a week, 36 hours. Adjunct Professor JOSEPH BECK.

32. GYNECOLOGICAL CLINIC.—Two hours a week, 72 hours. Professor VAN HOOSEN. 33. *Same.*—One hour a week, 36 hours. Clinical Professor LUCY WAITE, *Extra Mural.*

SENIOR YEAR

All Senior students are required to attend the Hospital and Dispensary Maternity clinics. The latter is under the direction of Professor of Clinical Obstetrics RACHELLE S. YARROS.

1. PRACTICE OF MEDICINE.—Lectures and recitations six hours a week, 216 hours. Osler, Anders, Tyson. Professors QUINE, Associate Professor WILLIAMSON.

2. NEUROLOGY.—Lectures and recitations four hours a week, one semester, 72 hours. Gowers. Professor KING. Adjunct Professor C. B. KING.

3. PSYCHIATRY.—Lectures three hours a week, one semester, 54 hours. Defendorf. Professor OSCAR A. KING. Adjunct Professor C. B. KING. Assistant Professor DARLING.

4. DISEASES OF THE CHEST.—Lectures and recitations three hours a week, one semester, 54 hours. On the lungs, Fowler and Goodlea, Fox. On the heart and arterial system, Babcok, Broadbent Balfour. Professor TICE.

5. PEDIATRICS.—Lectures three hours a week one semester, 54 hours. Holt, Taylor, Wells, Cotton. Professor FRANK B. EARLE.

6. PRACTICE OF SURGERY.—Lectures two hours a week, 72 hours. International Text-Book, Holmes' Surgical Emergencies. Professor HOLMES.

7. OPHTHALMOLOGY.—Lectures one hour a week, one semester, 18 hours. Fox, De Schweinitz, May, Jackson. Professor HARPER, Adjunct Professor LORING.

8. OBSTETRICS.—Lectures, demonstrations and quizzes, two hours a week, 72 hours. Bacon's Synopsis, Williams, Edgar, Hirst, Peterson. Professor BACON.

9. Gynecology.—Lectures two hours a week one semester, 36 hours. Byford, Penrose, Reed, American Text-Book. Professors Byford, Newman.

10. Hygiene.—Lectures two hours a week, one semester, 36 hours. Bergey, Harrington, McFarland, Park. Professor Gehrman.

11. Autopsies.—Two hours a week, one semester, 36 hours. Professor Evans, Associate Professor O'Byrne.

12. Dispensary Clinics.—Three hours a week, one semester, 54 hours.

13. Medical Clinic.—Two hours a week, 72 hours. Professor Wells. 14. *Same.*—Two hours a week, 72 hours. Professor Williamson. 15. *Same.*—One hour a week, 36 hours. Professor Williamson. 16. *Same.*—One hour a week, 36 hours. Professor Goodkind 17. *Same.*—One hour a week, 36 hours. Professor Tice. 18. *Same.*—One hour a week, 36 hours. Professor Patton. 19. *Same.*—One hour a week, 36 hours. Adjunct Professor Harris.

20. Neurological Clinic.—One hour a week, 36 hours. Professor King. 21. *Same.*—One hour a week, 36 hours. Professor Sanger Brown.

22. Pediatric Clinic.—One hour a week, 36 hours. Professor Earle. 23. *Same.*—One hour a week, 36 hours. Associate Professor Hatfield. 24. *Same.*—One hour a week, 36 hours. Adjunct Professor Koehler.

25. Surgical Clinic.—Two hours a week, 72 hours. Professor Steele. 26. *Same.*—One hour a week, one semester, 18 hours. Professor Steele. 27. *Same.*—Two hours a week, 72 hours. Professor Davis. 28. *Same.*—One hour a week, 36 hours. Professor Davis. 29. *Same.*—Two hours a week, 72 hours. Professor Harsha. 30. *Same.*—Two hours a week, 72 hours. Professor Ochsner. 31. *Same.*—Two hours a week, 72 hours. Professor Ferguson. 32. *Same.*—One hour a week, 36 hours. Professor Davison. 33. *Same.*—One hour a week, 36 hours. Professor Davison.

34. Ophthalmological Clinic.—One hour a week, 36 hours. Professor Harper, Adjunct Professor Loring. 35. *Same.*—One hour a week, 18 hours. Adjunct Professor Gamble. 36. *Same.*—One hour a week, 36 hours. Associate Clinical Professor Noble, *Extra Mural.*

37. Gynecological Clinic.—Two hours a week, 72 hours. Professor Byford. 38. *Same.*—One hour a week, 36 hours. Clinical Professor Lucy Waite, *Extra Mural.*

Required and Elective Subjects
Junior Year

Specified Required Subjects.		hours.
1	Physical Diagnosis	54
2	Dermatology	36
3	Surgery	144
4	Genito-Urinary Diseases	36
5	Surgical Pathology	36
6	Laryngology, Rhinology and Otology	18
7	Obstetrics	36
8	M. & C. Diagnosis	48
9	Medical Jurisprudence	18
		426

Elective Subjects.		hours.
1	Medicine	216

Course A.—Infectious Diseases and Intoxications, 54 hours.
Course B.—Constitutional Diseases and Diseases of the Kidney, 54 hours.
Course C.—Diseases of the Digestive Organs, 54 hours.
Course D.—Diseases of the Heart and Lungs, 54 hours.

2	Neurology		72
3	Orthopedic Surgery		18
4	Operative Surgery		36
5	Clinical Anatomy		54
6	Gynecology		36
7	Dispensary Clinics		54
8	Medical Clinic (Wells)	C. C. Hosp.	72
9	Medical Clinic (Goodkind)	C. C. Hosp.	36
10	Medical Clinic (Harris)	C. C. Hosp.	36
11	Medical Clinic (Michel)	W. S. Hosp.	36
12	Neurological Clinic (Sanger Brown)	C. C. Hosp.	36
13	Dermatological Clinic (Pusey)	C. C. Hosp.	36
14	Surgical Clinic (Eisendrath)	C. C. Hosp.	72
15	Surgical Clinic (Eisendrath)		36
16	Surgical Clinic (Heineck)	C. C. Hosp.	18
17	Surgical Clinic (Porter)	C. C. Hosp.	36
18	Surgical Clinic (Beck)		36
19	Surgical Clinic (Humiston)	C. C. Hosp.	36
20	Laryngological Clinic (Ballenger)		72
21	Laryngological Clinic (Brown)		36
22	Gynecological Clinic (Beck)	C. C. Hosp.	36
23	Gynecological Clinic (Van Hoosen)		72
24	Gynecological Clinic (Waite)		36
			1242

Senior Year

Specified Required Subjects.		hours.
1	Medicine	216
2	Neurology	72
3	Psychiatry	54
4	Chest Diseases	54
5	Pediatrics	54
6	Ophthalmology	18
7	Obstetrics	72
8	Gynecology	36
9	Hygiene	36
10	Autopsies	36
11	Dispensary Clinics	54
		702

Elective Subjects.		hours.
1	Surgery	72
2	Medical Clinic (Wells) C. C. Hosp.	72
3	Medical Clinic (Williamson)	72
4	Medical Clinic (Williamson) C. C. Hosp.	36
5	Medical Clinic (Goodkind) C. C. Hosp.	36
6	Medical Clinic (Tice) C. C. Hosp.	36
7	Merical Clinic (Patton) C. C. Hosp.	36
8	Medical Clinic (Harris) C. C. Hosp.	36
9	Neurological Clinic (King)	36
10	Neurological Clinic (Sanger Brown) C. C. Hosp.	36
11	Pediatric Clinic (Earle)	36
12	Pediatric Clinic (Hatfreed)	36
13	Pediatric Clinic (Koehler)	36
14	Surgical Clinic (Steele)	72
15	Surgical Clinic (Steele) C. C. Hosp.	18
16	Surgical Clinic (Davis)	72
17	Surgical Clinic (Davis) C. C. Hosp.	36
18	Surgical Clinic (Harsha)	72
19	Surgical Clinic (Ochsner)	72
20	Surgical Clinic (Ferguson)	72
21	Surgical Clinic (Davison) C. C. Hosp.	36
22	Surgical Clinic (Davison) W. S. Hosp.	36
23	Ophthalmological Clinic (Harper or Loring)	36
24	Ophthalmological Clinic (Gamble)	18
25	Ophthalmological Clinic (Noble) W. S. Hosp.	36
26	Gynecological Clinic (Byford)	72
27	Gynecological Clinic (Waite)	36
		1260

As will be seen from the foregoing tables, the College offers work in the several years as follows: In the *Freshman year,* 558 hours of didactic and 756 hours of laboratory instruction; in the *Sophomore year,* 702 hours of didactic and 648 hours of laboratory instruction, *all of which is required;* in the *Junior year,* 1668 hours of didactic and clinical instruction; and in the *Senior year,* 1962 hours of didactic and clinical instruction. In the *Junior and Senior years* 1,000 *hours of instruction constitute a year's work.* Each student is required to *take all the* "Specified Required Subjects" in his year. In the Junior year these subjects amount to 426 hours. The remaining 574 hours he can make up from the "Elective Subjects," exercising to a large extent his own choice in the selection of the subjects which he will take. In the Senior year the specified required subject amount to 702 hours. The remaining 298 hours the student can select from the "Elective Subjects." It is required, however, that in both the Junior and Senior years he shall include among his elective subjects at least 120 hours of medical clinics and 120 hours of surgical clinics.* At the time of registration the student *is required* to designate the subjects which he elects in order to complete his 1,000 hours, and he will not be enrolled in the classes until his course has been approved by the Secretary. The Secretary has authority to refuse to approve the course selected by any student when for any reason it seems to him not well selected.

CLINICAL FACILITIES

DISPENSARY CLINICS

The Dispensary occupies the entire first floor of the main building. Connected with the reception room are ten clinic rooms in daily use for the purpose of clinical instruction. During the past five years there have been treated in these rooms an average of 10,000 patients each year.

The dispensaries are divided into ten departments. During the Junior year these clinics are elective, but during the Senior year each student is required to take a course of instruction in these departments. This work is in small classes and under the direction of members of the Faculty. The student has the opportunity to examine and treat the patient himself under the guidance of teachers, and thus receives practical experience.

*Clinics in Diseases of the Chest, Nervous System, Pediatrics and Dermatology are classified as Medical.

AMPHITHEATER CLINICS

More than 600 clinics besides the Dispensary clinics are given in the College during the collegiate years. Practically all diseases seen in the temperate zone are demonstrated and all of the operations of surgery are done in these clinics.

Senior students are selected to examine and diagnosticate many of these cases and are detailed to assist in the operations. Senior students are also appointed for fixed periods to act as surgical assistants. These assist in operations and carry out the details of the care of patients after operations.

MATERNITY CLINICS

To provide clinical material for the practical instruction of students in obstetrics the College supports an obstetrical ward in the West Side Hospital and an out-patient maternity clinic. The hospital patients are especially desirable because they serve for a careful study of pregnancy, labor and the puerperium and the management of new-born infants. In the out-patient clinic, situated in a densely populated part of the city, the student learns to provide the necessary equipment and to deal with patients in their homes.

These sources furnish sufficient material so that every student can observe and assist in conducting, under the direction of the teacher in charge, several cases, one or more of which is in the Hospital. While taking the course, which lasts two to three weeks, students sleep in rooms provided for the purpose at the Dispensary and Hospital. They not only attend the confinement, but make daily visits to the puerpera, making labor, puerperium and infant records, and helping to care for mother and child. Each member of the senior class is obliged to take this course, for which a fee of $15 is required.

HOSPITAL CLINICS

Hospitals.—The West Side Hospital, containing 125 beds, is connected with the College by a corridor. Within half a block of the College is the Cook County Hospital. This institution is the chief free hospital in Chicago. During the past year it has cared for 30,000 patients, and supplies a quantity and variety of material which no private institution can command. In the amphitheater of this hospital is conducted much of the clinical instruction of the College.

Medical appointments in this institution are made by the Civil Service Board each year. The internes, 30 in number, and externes, are selected each spring by competitive examination. Only graduates of medical colleges of Cook county are eligible for these examinations. The internes serve eighteen months, and receive their board and laundry and have rooms in the hospital. They do a large amount of surgical, medical and obstetrical work. There are more than sixty public and private hospitals in Chicago. All of these hospitals appoint from one to three internes by competitive examination. The students of this College are required to attend the clinics of the Cook County Hospital during their Junior and Senior years. The hospital tickets cost $5 each, and are for sale at the office of the Warden. They admit the holders to all clinics and autopsies and to all public operations and lectures in the hospital grounds.

The County Morgue is located in the hospital grounds, and daily post-mortems are held by the pathologists of the hospital. The students are required to attend during two years.

Members of the Faculty are connected with and give clinical instruction, to which students are admitted under certain conditions, in the following hospitals:

Cook County Hospital.
West Side Hospital.
Augustana Hospital.
St. Mary's Hospital.
Chicago Hospital.
Baptist Hospital.
St. Anne's Hospital.
Woman's Hospital.
Samaritan Hospital.
Alexian Brothers' Hospital.
Illinois Eye and Ear Infirmary.
Norwegian Deaconess Hospital.
Tabitha Hospital.

EXTRA MURAL CLINICS

Arrangements exist with several hospitals whereby the *Senior* students are permitted to attend both amphitheater and dispensary clinics in groups of from six to twenty-four. Attendance upon these clinics is elective, but is accepted upon certain conditions in lieu of attendance upon registered clinics; such conditions will be defined by the Secretary. Arrangements have also been made whereby bedside instruction may be given in sections.

Opportunities for externe service (practically the work of Junior interne) are abundant for Senior students whose didactic work does not conflict. These courses are arranged in advance either through the secretary or through some member of the attending staff.

QUINE LIBRARY

The Quine Library is the best equipped private medical library west of the Alleghany Mountains. It contains all standard text-books, books of reference and periodicals for the use of medical students, and is under the direction of a trained librarian. The bound volumes now number 11,000, and include practically every important text-book and monograph on medical subjects. One hundred and twenty medical periodicals are regularly received.

SCHOLARSHIPS

Through the munificence of the late Prof. R. L. Rea a fund has been provided for four scholarships each year for indigent worthy students. These scholarships will be awarded by the officers of the Faculty to the four students whose credentials and qualifications for the study of medicine entitle them to participate in the benefits of the Rea fund. The students whose names follow received benefit under this scholarship during the season of 1907-08:

Bernard Vincent McCabe. Henry Bardwell Donaldson.
Edmund Hermann Mensing. Louis Henry Nowack.

Emily W. L. Schofield Scholarship of the Woman's Board of Missions of the Interior:

Emily W. S. Schofield Scholarship of the Northwest branch of Foreign Missionary Society of the M. E. Church: E. Zerefeh Bashur.

FEES AND EXPENSES

A student will not be permitted to register for his year's work nor to have his name placed upon the class rolls until the matriculation fee, laboratory deposit and one-half of his tuition fee are paid. For a full statement of fees see page 53.

REQUIREMENTS FOR GRADUATION

1. Satisfactory evidence of good moral character. 2. Attendance during four collegiate years, the last of which must have been in this institution, and the completion of the required work of each year. 3. Satisfactory deportment. 4. Payment in full of all fees.

For catalog and detailed information address SECRETARY COLLEGE OF MEDICINE, Congress and Honore Streets, Chicago, or REGISTRAR, University of Illinois, Urbana.

COLLEGE OF DENTISTRY

(For Faculty of College of Dentistry see Faculty.)

BUILDINGS AND EQUIPMENT

The College of Dentistry begins its sixth collegiate year October 5, 1908.

The College occupies its own building, situated on the corner of Harrison and Honore streets in Chicago. This building is a six-story stone and brick structure, constructed at a cost of $100,000, and is occupied exclusively by the School of Dentistry. It is commodious and complete in every particular. The building stands on the corner of two wide streets and is separated from the adjacent buildings on the north and east by wide, open spaces, so that the provisions for ventilation, and especially for light, are of the best possible character. It is located directly opposite the Cook County Hospital, in the center of the clinical field of Chicago, and is thus at all times insured of abundance of clinical material. Adjoining the college on the west is the West-Side Hospital, and on the north are the new buildings of the College of Medicine.

The Infirmary occupies the entire top floor of the main building. Large skylights, as well as north, east, south and west sidelights assist in making the Infirmary ideal. As there are no immediately adjoining buildings, the light is unobstructed on all sides. The height is such that the observer has a birds-eye view of the city in all directions.

The Infirmary is divided into the Operative, Prosthetic and Orthodontia sections.

These departments are equipped with new chairs of the latest improved pattern, with fountain cuspidors attached, double-decked stands for accommodating students' operating cases, and sanitary washbowls with hot and cold water, formaldehyde instruments sterilizer and all appliances that in any way assist in making the Infirmary a model.

The Infirmary has adjacent to it a prosthetic laboratory, in which the students can do their molding, soldering and fusing. Compressed air apparatus, electric ovens for porcelain work, electric lathes, and such other apparatus as go properly to equip an ideal prosthetic laboratory are provided.

REQUIREMENTS FOR ADMISSION

Persons desiring to enter this college must bring with them a diploma of a State normal school, an accredited high school or academy of the University of Illinois, or of a similarly accredited school of another university, whose entrance requirements are equivalent to the entrance requirements of the University of Illinois, or a certificate of admission to a literaryr or scientific college whose standards are equal to those of the University of Illinois.

Persons not having these credentials will be admitted upon examination and approval of the State Superintendent of Public Instruction of his deputy.

This college will receive no student who is not present within ten days after the opening day of the session in each year, or in case of necessary delay, by reason of illness, properly certified by the attending physician, within twenty days after the opening day.

Students matriculating agree thereby to accept the discipline imposed by the faculty.

It is desirable that students should register early, since the order of assignment of seats in the lecture halls is based upon the order of time of registration.

ADMISSION TO ADVANCED STANDING

Persons having qualifications for admission to this college, and having studied dentistry in other schools for at least one year, may be admitted to advanced standing after satisfying the faculty that they have completed an equivalent amount of work to that which is exacted by this college in the respective classes.

Students having had one or more years in the Department of Medicine, or other medical college of equal rank, are allowed credit toward graduation only for so much of the required course in dentistry as was included in their medical course. But they must be registered for full time in the dental course.

Graduates of the University with the A.B. or B.S. degree, who have taken the biological and chemical courses of this University,

can secure advanced standing in the dental course, providing they have done full work in the science subjects required in the dental curriculum.

Graduates of reputable medical colleges will be admitted to the Junior class and are excused from lectures and examinations upon general anatomy, chemistry, histology, pathology and physiology, but are required to take lectures and examinations in dental subjects in accordance with the rules of the National Association of Dental Faculties.

REQUIREMENTS FOR GRADUATION

The Degree of Doctor of Dental Surgery will be conferred on students who shall have completed the course of instruction, attended the required time, performed the work required, and shall have passed satisfactory final examinations. To be eligible to the degree, the student must be twenty-one years of age, possess a good moral character, and must have paid all fees.

METHODS OF INSTRUCTION

Instruction is given by means of lectures and recitations, demonstrations and laboratory work. The time of the student is about equally divided between laboratory and clinical work on the one hand, and lectures and recitations on the other. The work of each session will be complete in itself, hence a graded course. Credits are given as the work proceeds.

Students are admitted to the laboratories from the beginning of the first year. The laboratory work is so arranged as to maintain the best relationship to the lectures and clinical studies.

In the clinical work, methods both of investigation and of reasoning are carefully and systematically taught. The diagnosis, prognosis and indications for treatment will receive no less attention than the methods of construction and the technique of procedures.

FEES

Fees are payable in advance. For a statement of the amounts see p. 53. Students unable to meet these requirements must make satisfactory arrangements with the DEAN or ACTUARY at the beginning of the course.

This announcement applies to the session beginning October, 1908, and all requirements, fees and regulations mentioned in it

apply to this school year alone. The Trustees of the University reserve the right of making changes in succeeding announcements.

These conditions cannot be modified except upon the written consent of the proper officials of the University.

For such students as intend practicing in states requiring a four-year course ample provision will be made.

Good board and rooms convenient to the College can be obtained at prices varying from three to five dollars a week, according to the accommodations; also vacant rooms without board, furnished or unfurnished, can be obtained at from six to ten dollars a month.

For further information relating to the College of Dentistry, address

DEAN OF THE COLLEGE OF DENTISTRY,
Cor. Harrison and Honore Streets, Chicago, Ill., or the
REGISTRAR of the University, Urbana, Ill.

THE SCHOOL OF PHARMACY

(For Faculty of the School of Pharmacy see Faculty.)

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country and these were located in the eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, yet other functions were also developed. Thus, a code of ethics was early adopted by the members, successful efforts were made to bring about better relations between pharmacists and physicians, the pioneer pharmaceutical library was established and for eighteen years beginning with 1863 a monthly journal "The Pharmacist"—the first of its kind in the west—was published.

In October, 1859, the first course of lectures was instituted occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching and the school was not reopened until 1870. The great fire, in 1871, destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing an excellent library and outfit of apparatus, which became the nucleus of the present complete equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which, in the following year, secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building at 465 State street. Up to this time instruction had been given mainly by means of lectures, laboratory work being entirely op-

tional. Laboratory courses in pharmacy, chemistry and vegetable histology were now made obligatory. A laboratory devoted entirely to prescription compounding was established in 1892.

The College was formally united with the University May 1, 1896, and when it became the technical School of Pharmacy of the University of Illinois. In the management of the School, the trustees and officers of the University have the assistance of an advisory board of pharmacists, elected by the registered pharmacists of the State through the Illinois Pharmaceutical Association.

LOCATION

The School of Pharmacy is located in the building formerly occupied by the Chicago Manual Training School, at Michigan boulevard and Twelfth street. The building is a substantial brick structure, five stories in height, with a frontage of fifty feet on Michigan ave. and one hundred and seventy feet on Twelfth street. There are large windows on four sides, giving excellent light, and the rooms are heated by steam throughout.

The location is an ideal one, being near the center of the city and convenient to the various lines of transportation, yet removed from the noise and bustle of the business district.

A half block east of the building is the Illinois Central Depot, and one block west are the Cottage Grove avenue, and Indiana avenue and the Twelfth street surface lines, and the Twelfth street station of the South Side Elevated Railroad.

On Michigan avenue, immediately south of the School, are to be found some of the best low-priced boarding and rooming places in the city. Satisfactory accommodations may be readily secured within a short distance of the School.

EQUIPMENT

The entire east end of the building is occupied by lecture halls, of which there are four, arranged one above the other and having a seating capacity of from one hundred and twenty to three hundred persons.

The laboratories are seven in number, including a laboratory for qualitative analysis, for quantitative analysis, for special work in chemistry, for pharmacognosy, for microscopy, for manufacturing pharmacy, and for dispensing. The total capacity of these laboratories is sufficient for the accommodation of 420 students, working at one time.

All the rooms have excellent light and ventilation and abundant blackboard space. The supply of compound microscopes, analytical balances and special apparatus is exceptionally complete and the collections of crude drugs, medicinal plants, chemicals and pharmaceutical products are varied and extensive.

The library contains about two thousand volumes, including, in addition to the usual works of reference, many rare books. Complete files of the leading pharmaceutical journals are an important feature.

COURSES OF INSTRUCTION

The course leading to the degree of Graduate in Pharmacy appeals especially to young men and women who desire to qualify themselves to become pharmacists. The instruction is so arranged as to require the attendance of each student on three days each week and from twenty to twenty-one hours weekly during two annual sessions of thirty weeks each. This arrangement is advantageous to drug clerks who desire to spend a part of their time in drug stores while attending school, thereby adding to their practical experience and at the same time earning a part or all of their living expenses.

The subjects taught are chemistry, general, pharmaceutical and analytical; pharmacy, theoretical, manufacturing and dispensing; botany; physiology and materia medica.

To meet the demand for special training on the part of students who desire to pursue more extended courses in pharmaceutical chemistry, applied microscopy and bacteriology or to prepare themselves for positions under the Food and Drugs Act, this School offers a course leading to the degree of Pharmaceutical Chemist and comprising two annual sessions of 36 weeks each, with instruction on five days each week, and amounting to about 33 hours weekly or a total of 2,300 hours in the entire course.

This course is partly concurrent with the shorter course and includes all the didactic instruction given in the latter. It consists largely of laboratory practice and embraces in addition to the subjects above mentioned, Organic Analysis and Proximate Assays, New Remedies, Analysis of Urine, Food and Sanitary Analysis, Bacteriology and Applied Microscopy.

The system of teaching embraces lectures, illustrations, demonstrations, recitations, written and oral examinations and individual

practice and personal instruction in the variousl laboratories, much time being devoted to this important part of the student's work.

ADMISSION AND GRADUATION.

The regular session opens September 22, 1908. The shorter course ends April 22, 1909; the longer course closes June 7, 1909.

Applicants for admission to the course leading to the degree of Pharmaceutical Chemist must be at least seventeen years of age and must be graduates of accredited high schools or furnish evidence of a preliminary education equivalent thereto.

Applicants for admission to the course leading to the degree of Graduate in Pharmacy must be at least seventeen years of age and have completed one year of high school work or its full educational equivalent.

The entrance requirements of this school are those adopted by the American Conference of Pharmaceutical Faculties of which this school is a member.

Students who have pursued courses of study in other colleges of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this college.

In conformity with the usual custom of pharmaceutical schools, drug store experience is not made a requirement for the degree of Pharmaceutical Chemist. Students who have satisfactorily completed the course will be awarded the degree upon the recommendation of the Faculty.

For the degree of Graduate in Pharmacy this school has always required practical drug store experience. The actual time of attendance at the school, amounting to fourteen months, is credited as part of the four years of practical experience required for the degree. Candidates must have attained the age of twenty-one years and have satisfactorily finished the work leading to the degree. Students who have successfully met the scholarship requirement, but are lacking in age or in practical experience will receive a certificate and will be awarded the diploma when the requirements of age and experience are satisfied.

Persons competent to fulfill the general requirements of admission to the University may be granted credits upon other University courses for equivalent work completed at the School of Pharmacy.

FEES AND EXPENSES.

For a statement of the fees see page 53. Fees are payable in advance. Students unable to meet this requirement must make satisfactory arrangements with the Actuary at the beginning of the course.

Board and Lodging.—Good board and lodging, within a short distance of the college, can be had for from four to six dollars per week. This expense may be somewhat reduced by two or more students rooming together. The Actuary keeps a list of suitable boarding and rooming places, with their rates.

Selection of Seats.—Seats in the lecture halls and desks in the laboratories will be assigned to students by the Actuary, in the order of enrollment. To enroll, junior students will fill out the matriculation blank and forward it to the Actuary, together with credentials for admission and the matriculation fee of five dollars; senior students will make a payment on tuition account of five dollars. It is of advantage to students to matriculate early.

Opportunities for Employment.—The Actuary keeps a register of students desiring employment and of pharmacists wishing to employ students. Students desiring employment are invited to correspond with him. There are among the one thousand drug stores of Chicago and suburbs, many model pharmacies where the student may obtain valuable experience.

State Registration.—To become a registered pharmacist in Illinois, it is necessary to pass an examination before the State Board of Pharmacy, no diplomas being recognized.

The diploma of the College is, however, recognized in lieu of examination for registration in several states and territories.

Further information may be found in the special announcement of this school, which may be obtained from the Actuary, School of Pharmacy, Michigan Avenue and Twelfth Street, Chicago, or the Registrar, University of Illinois, Urbana.

THE SCHOOL OF EDUCATION

(Omitted from proper position.)

PURPOSE

It is the purpose of the School of Education to bring together all the resources of the University which contribute in a professional way to the preparation of three classes of workers in our public school system:

1. *The High School Teacher.*—The school provides for the needs of the high school principal, by supplying a general knowledge of the various subjects of the high school curriculum as well as a knowledge of organization and administration as applied to the secondary school; and for those of the departmental specialist requiring a more extended knowledge of a few subjects.

2. *The Supervisor of Special Subjects.*—Manual training, domestic science, music, drawing, and physical training as now taught in the better class of school systems, are subjects which demand specially trained supervisors; and the exceptional facilities of the University for instruction in these subjects are thoroughly utilized.

3. *The School Superintendent.* — Demanding, as he does, a knowledge of the development of school systems, a keen insight into pedagogical problems, and an appreciation of child-nature, the superintendent needs extended preparation, and this the School of Education is prepared to give.

The faculty of the school includes all those instructors who offer courses primarily intended for prospective teachers.

CERTIFICATE OF QUALIFICATION TO TEACH

The School of Education has the power to recommend the granting of a special certificate, *The University Certificate of Qualification to Teach,* to candidates who take the following courses:

1. Elementary Psychology (Psychology 1, 3 hrs.)
2. Principles of Education (Education 1, 5 hrs.)
3. High School Organization and Administration (Educ. 6, 3 hrs.)
4. Philosophy—a three hours' course.
5. A required amount of work in the special subject, or subjects, which the candidate intends to teach. This amount is different for different subjects. The candidate for a certificate is expected to

do work of a quality considerably higher than that indicated by mere passing grades.

The certificate states the subjects of the high school curriculum which the holder is prepared to teach, such preparation being based upon at least two years' university work in the subject. Students preparing to be supervisors of special subjects must devote considerably more time than this to the preparation. Prospective superintendents must complete two years' work in the department of education in addition to that already prescribed for the certificate.

All juniors and seniors in the University who are candidates for the University Certificate of Qualification to Teach must enroll in the School of Education. Other students taking any course offered by the Department of Education or any of the teachers' courses offered by other departments are eligible to such enrollment. At registration time in the fall all students who desire to enroll in the School should confer with the Director, and should fill out the enrollment card of the School, after they have registered in the usual way with the Deans of their Colleges.

The course of study of the School of Education is made up of offerings selected from the work of the various departments of instruction in the University. The course is elective except for the graduation requirements of the College in which the student is registered, and for the prerequisites to the granting of the Certificate of Qualification to Teach.

The work is arranged in four somewhat distinct groups:

(a) Courses in Education, Psychology and Philosophy bearing directly upon the profession of the teacher.

(b) Courses especially intended for teachers, offered by various departments of the University.

(c) Suggested programs for students preparing to become special supervisors of Domestic Science, Drawing, Manual Training, Music, or Physical Training.

(d) Suggested programs for continuous and progressive work in subjects represented in the high school curriculum.

Special Lectures

A number of special lectures are offered each year by the School of Education. The State Superintendent of Public Instruction and the Presidents of the five State Normal Schools of Illinois are officially connected with the School in the capacity of Special

Lecturers, each speaking before its students two or more times each year. Other educators of prominence are also invited from time to time to do similar service.

Practice Teaching

Although it is impossible to introduce into the work of any professional school, the actual conditions under which the profession must be practiced, nevertheless, it is important to do so as fully as possible. In the School of Education this is done through observation and practice teaching in some organized school system. For this purpose the Academy of the University, and neighboring high schools are utilized. Both observation and practice are under the direction of competent critic-teachers, criticizing their work and offering helpful suggestions.

University of Illinois Pedagogical Institute

This is an organization of the students and faculty of the School of Education conducted in every respect as are teachers' associations among those actually engaged in school work. It holds sessions at intervals throughout the year. At each session an address is delivered by some one of the special lecturers of the School of Education, while another part of the session is devoted to papers, addresses, and discussions by the members of the association. All members of the University, as well as the public school teachers of the State, are eligible as associate members. Graduates of the School of Education retain their active membership.

The Pedagogical Library and Museum

In the rooms of the Department of Education in University Hall is a considerable collection of photographs of school buildings, drawings and constructive work by pupils in the public schools, and the nucleus of a representative collection of apparatus for the school laboratory.

In addition to this are more than 8,000 text-books, national, state and city reports, courses of study and other educational documents of value. A card catalog of 9,000 titles carefully classified, covering recent educational magazine literature is also in the rooms of the Department.

Committee on Appointment of Teachers

This committee has in charge the naming of candidates from among University graduates for positions as teachers or supervisors of public schools, or instructors in normal schools, colleges, and technical schools. All requests coming to the University to recommend candidates for such positions go to this committee and should be addressed to the chairman, Professor H. A. Hollister.

The special announcement of the School of Education describing the work in greater detail may be had by addressing the Registrar of the University.

PART III

DESCRIPTION OF COURSES

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GENERAL DESCRIPTION OF COURSES

IN THE DEPARTMENTS AT URBANA, EXCEPT THE SUMMER SESSION

Following the description of each course of instruction will be found the requirements, if any, for admission to that particular course. The sequence indicated by these prerequisites must be followed. For instance, under Art and Design 5, Painting, there is a prerequisite of Art and Design 1, 2, and 3. All these subjects must be carried before Course 5 may be taken.

If a course not required for graduation is selected by fewer than five students, it may be withdrawn for the semester.

Graduate courses are numbered upward from 100. Other courses may be arranged by the professors in charge to meet the special requirements of advanced students.

Credit is reckoned in *semester hours,* or simply *hours.* An *hour* is either one class period a week for one semester, or the equivalent in laboratory, shop, or drawing room.

The semester, and the number of *hours* each semester for which the course counts, are shown after each course, thus: *I, II,* (2). The Roman figures indicate semesters, the Arabic, in parenthesis, indicate *hours* of credit for *each semester.*

FINE ARTS*

ART AND DESIGN

In this department students of other departments may give special attention to the artistic aspects of their chosen courses of study. Special students of art may elect courses covering two years of study in drawing, painting, design, and modeling. Those wishing to become teachers of drawing or of manual training in the public schools may arrange courses to suit their needs.

*Attention is here called to courses in esthetics offered in the group of philosophical studies, and to related courses in household science and architecture

1. Free-Hand Drawing.—An elementary course offering, first, lectures on the principles of perspective followed by drawing practice; and, second, work arranged to give direct assistance to the students in their several courses in the University. All students entering the department are required to enter this class or pass an examination in the subject. *I;* (2 or 3); *II;* (3). Assistant Professor Lake, Miss Jones, Mr. Lawrence.

2. Light and Shade.—Study of values in charcoal, pencil, or monochrome wash as a preparation for advanced work. *II;* (2). Mr. Lawrence.

Prerequisite: Art and Design 1.

3. Antique Class.—Study of casts from the antique, including details of the face, masks, busts, and the figure. This course aims to give students a sound knowledge of the principles of the construction of the figure and prepare them for intelligent work from life. *I, II;* (3). Assistant Professor Lake.

Prerequisite: Art and Design 1.

4. Painting.—Still-life and flowers in water colors. *I, II;* (3). Miss Jones.

Prerequisite: Art and Design 1, 2.

5. Painting.—Figure and portrait in oil colors. *I, II;* (3). Miss Wetmore.

Prerequisite: Art and Design 1, 2, and 3.

6. Painting.—Still-life and flowers in oil colors. *I, II;* (3). Miss Wetmore.

Prerequisite: Art and Design 1, 2.

8. Modeling.—A course in clay modeling comprising work from the antique and from life in relief and the round. Instruction is given in casting. *I, II;* (2). Mr. Lawrence.

Prerequisite: Art and Design 1 and 3.

8a. Special section of course 8 for the study of ornament for architectural students. *I;* (2). Mr. Lawrence.

Prerequisite: Art and Design 1.

10. Pen and Pencil Rendering.—In this course drawings are made with special reference to the requirements of the reproductive processes. Lectures on the graphic arts and process engraving. *I;* (1). Mr. Lawrence.

Prerequisite: Art and Design 1.

12. Applied Design.—This course offers a review of the principles of design, followed by practical problems worked out in metal, leather, etc. *II.* (3). Miss Jones.

Prerequisite: Art and Design 1.

16. Color.—The use of color in design and in interior decoration. *I;* (2). Architecture 41 may for the present be substituted for this course. Professor Wells.

Prerequisite: Art and Design 1, 3.

19. History of Art.—Architecture 29a and 29b may, for the present, be substituted for courses in the history of the fine arts previously offered in this department.

20. Teachers' Class.—In this class the principles of art study are applied to the special problems of the public school. Published courses of art study for the public schools are compared, and the class plans and arranges a course of study for the eight grades of the public schools. *I, II;* (1). Assistant Professor Lake.

Prerequisite: Art and Design 1, 2, 4.

MUSIC

1. History of Music.—Lectures on the development of music, referring especially to the rise of polyphony and dramatic music, the origin and progress of the oratorio, the evolution of instruments and instrumental forms, and studies in the lives of composers. Assigned collateral readings. *I, II;* (2). Mr. Schwartz.

2. Theory of Music.—Elementary Theory and Ear-training. Four Part Harmony, and Analysis. *I, II;* (2). Mr. Schwartz, Miss Forbes.

3. Advanced Harmony and Analysis.—*I, II;* (3). Mr. Schwartz.

4. Counterpoint, Canon, and Fugue.—*I, II;* (3). Mr. Schwartz.

5. General Theory, Free Composition.—*I, II;* (2½). Mr. Schwartz.

Note.—Music 5, *I,* may be taken with course 4, *II,* if desired.

6. Course for the Piano.—*Preparatory.* This course covers three years' work and is required in fulfillment of the two units prescribed for entrance to the School of Music. The work of each year counts two-thirds of a unit for entrance. It includes formation and position of fingers, hands, wrists, and arms, properties of touch,

principles of technique, thorough drill in scale and arpeggio playing, and exercises in accent, rhythm, and expression. Music used:

(a) First year. National Graded Course. *Bk. I, or equivalent; Köhler Op.* 151. Miss HOWE, Miss FLOYD, Miss MORTON.

(b) Second Year. Music used,—Köhler Op. 50; Leoschhorn Op. 65, Bk. 3; Duvernoy Op. 120; Kunz Canons (preparatory to Bach); Czerny, Op. 636; Sonatines of Lichner, Berens, Kulau, Clementi, Diabelli, etc. Pieces of same grade. Miss HOWE, Miss FLOYD, Miss MORTON.

(c) Third Year.—Gorno Pedal Studies; Czerny Op. 299, Bks. 1 and 2; Wolff Octave Studies; Lawrence, Bach Preparatory Studies; Berens School of Velocity; Heller Studies, selected; Easier sonatas of Haydn, Mozart, etc. Miss HOWE, Miss FLOYD, Miss MORTON.

7. *Collegiate.* First year. Studies in development of technique; Czerny, Op. 299, Bk. 3; Czerny Octave Studies; Cramer Etudes; Jensen, Etudes; Bach, Little Preludes and Fugues; sonatas of Haydn and Mozart; easier sonatas of Beethoven; Songs without Words, Mendelssohn; compositions (smaller works of Schubert, Raff, Grieg, Chaminade, Moszkowski, and others). *I, II;* (6). Professor LAWRENCE, Mr. VAN DEN BERG.

8. Second Year. Daily technique: Czerny, Op. 740; Mayer's Octave Studies; Pacher, Octave Studies; Bach, Two and Three-Voice Inventions, and French Suites; Sonatas and other compositions of Scarlatti, Beethoven, Schubert, Schumann, Mendelssohn, Weber, Raff, Rubinstein, Saint Saens, Godard, MacDowell, and others. *I, II;* (6). Professor LAWRENCE, Mr. VAN DEN BERG.

9. Third Year. Selections: Clementi, Gradus ad Parnassum; Moscheles, Op. 70; Kullak, Seven-Octave Studies, Bk. 2; Bach, English Suites and Well-Tempered Clavichord; Sonatas and concertos by Mendelssohn, Weber, Beethoven, Hummel, etc.; selections from works of Bach, Chopin, Schubert, Schumann, Brassin, Rubinstein, Liszt, Moszkowski, Scharwenka and other modern composers. *I, II;* (8). Professor LAWRENCE, Mr. VAN DEN BERG.

10. Fourth Year. Selections: Octave Studies; Clementi; Gradus, continued; Bach, Well-Tempered Clavichord, continued; Chopin, Etudes; Henselt, Etudes; Rubinstein, Etudes; Sonatas by Beethoven, and concertos and other compositions by the great masters, classic and romantic, both of the older and more modern schools. *I, II;* (9). Professor LAWRENCE, Mr. VAN DEN BERG.

11. Course for the Voice.—*Preparatory.* Covers three years' work and is required in fulfillment of the two units prescribed for entrance to the School of Music.

(a) First Year. Exercises for correct breathing and for proper placing of the voice. Randegger's Singing and Sieber's 36 eight measure Vocalises will be used. Mrs. Breneman, Miss McCobb.

(b) Second year. Breathing exercises. Tone production. Randegger's Singing. Sieber's 36 eight measure Vocalises, 25 studies from Concone's 50 lessons; simple songs for rhythm, accent, and enunciation. Mrs. Breneman, Miss McCobb.

(c) Third Year. Breathing exercises. Tone production. Randegger's Singing. Concone's 50 lessons completed. Panofka's Op. 85. Songs from Mendelssohn and modern composers. Mrs. Breneman, Miss McCobb.

12. *Collegiate.* First Year. Tone production. Randegger's Singing continued. 25 and 40 Concone Studies. Sieber's School of Velocity. Songs from Schubert, Franz, and modern composers. *I, II;* (6). Mr. Wade, Mrs. Breneman, Miss McCobb.

13. Second Year. Tone production. Sieber's School of Velocity continued. Panofka's studies. Op. 81. Songs of German, French and English composers. Simple selections from operas and oratorios. *I, II;* (6). Mr. Wade, Mrs. Breneman, Miss McCobb.

14. Third Year. Tone production. Sieber's School of Velocity continued. Bordogni's studies for soprano or tenor. Sieber or Bordese for alto or bass. Selections from oratorios and from French, German, and Italian composers. *I, II;* (8). Mr. Wade, Mrs. Breneman.

15. Fourth Year. Tone production. Lutgen's opera-vocalisen, Bk. 2. Italian, French, and English songs of standard composers. Solos and concerted works from modern and standard operas and oratorios. *I, II;* (9). Mr. Wade, Mrs. Breneman.

16. Course for Violin.—*Preparatory.* Sitt: Op. 31, No. 1. Schradieck's Scale and Arpeggio Studies commenced; Meerts Elementary Etudes; Sitt: Double Stops, in part. Pieces by Wiess, Sitt, Reinecke, and Pleyel. Mr. Schwartz, Miss Forbes.

17. *Collegiate.* First Year. Scales and Arpeggios in three Octaves; Sitt, Double stops, completed. Kreutzer, David Violin School, Vol. II; Sonatas by Handel and Schubert. Compositions

by Dancla, Hauser, and Bohm. *I, II;* (6). Mr. Schwartz, Miss Forbes.

18. Second Year. Scales in octaves and thirds, arpeggios on dominant and diminished seventh chords; David School completed, Fiorillo Etudes, Mozart Sonatas, Concertos by Viotti, Spohr and others; Concert pieces by Sitt, Spohr, Alard, and others. *I, II;* (6). Mr. Schwartz, Miss Forbes.

19. Third Year. Special technical drill. Meerts Etudes, Rode Caprices, Easier Modern Concertos and Sonatas; Concert pieces by Vieutemps, Sarasate, Foote, Cui. *I, II;* (8). Mr. Schwartz, Miss Forbes.

20. Fourth Year. Selected Concert Etudes, Sonatas by Beethoven, Schumann, and Brahms; Various Modern and Classic Concertos. *I, II;* (9). Mr. Schwartz, Miss Forbes.

Note.—Ensemble and orchestral work is required of all special students who are sufficiently advanced.

21. University Orchestra.—Two hours rehearsal once a week throughout the year. *I, II;* (1). Professor Lawrence.

22. University Choral Society.—One hour rehearsal once a week throughout the year. *I, II;* (½). Professor Lawrence.

23. Ear-Training Classes are provided for all students in the School of Music. *I, II;* Mrs. Smith.

24. Sight-Singing Classes are open to all University students. *I, II;* Mrs. Smith.

25. Public School Methods.—Students are required to complete courses in Music 1, 2, 11, and must pursue work as follows: Two classes a week in sight-singing, methods of teaching, and conducting. The methods taught are the so-called "Modern," "Educational," "Natural," "Normal," "Model." A teacher's certificate is granted to all who successfully complete the course. *I, II.* Mrs. Smith.

26. Course for Band Instruments.—Students are prepared for band, orchestra, or solo work. *I, II.* Mr. Harding.

27. Ensemble Classes.—Open to all University students who are sufficiently advanced. Works for two pianos, string, wood, wind, and piano trios, quartets, etc., as well as the larger ensemble works are studied. *I, II.* Mr. Schwartz, Mr. Van den Berg.

LANGUAGE AND LITERATURE

CLASSICS

GREEK

Courses 1 to 4, inclusive, are designed to meet the needs of students who cannot present Greek for entrance, and yet wish to study the language. The announcement of authors is tentative, and may be changed as the progress of the class requires:

1. GRAMMAR AND READER.—*I;* (4). Dr. ALLEN.

2. GRAMMAR AND READER.—*II;* (4). Dr. ALLEN.
Prerequisite: Greek 1.

3. XENOPHON'S ANABASIS, with selections from the narrative parts of Thucydides. *I;* (4). Professor Moss.
Prerequisite: Greek 2.

4. HOMER—ODYSSEY.—Selections. *II;* (4). Professor Moss.
Prerequisite: Greek 3.

5. HERODOTUS.—Greek prose composition. *I;* (4). Professor Moss.
Prerequisite: Entrance credits.

6. ANDOCIDES AND LYSIAS.—Greek prose composition. *II;* (4). Professor Moss.
Prerequisite: Greek 5.

7. XENOPHON.—Memorabilia. *I;* (4). Dr. ALLEN.
Prerequisite: Greek 6.

8. PLATO.—One or more complete dialogs, and selections. *II;* (4). Professor Moss.
Prerequisite: Greek 7.

9. GREEK ORATORY.—*I;* (3). Professor Moss.
Prerequisite: Greek 8.

10. GREEK TRAGEDY.—*I;* (2). Professor Moss.
Prerequisite: Greek 8.

11. HOMER.—*The Iliad. II;* (3). Professor Moss.
Prerequisite: Greek 8.

12. THUCYDIDES.—*II;* (2). Professor Moss.

13. NEW TESTAMENT GREEK.—*II;* (2). Professor Moss.
Prerequisite: Greek 4.

14. Advanced Greek Prose Composition.—*I;* (1). Professor Moss.

Prerequisite: Greek 6.

15. Teachers' Course.—Greek as a secondary school course. The problems of the classroom. Texts, methods, etc. *II;* (1). Professor Moss.

16. The Private and Public Life of the Greek People.—Lectures and prescribed readings. A large collection of photographs and lantern slides is used to illustrate this course. *I;* (1). Professor Moss.

17. Greek Poetry.—Lectures and prescribed readings from English translations. *I;* (2). Professor Moss.

18. Greek Drama.—Lectures and prescribed readings from English translations. *I;* (2). Professor Moss.

This course is an extension of Comparative Literature 3, which see.

19. Greek Prose.—Lectures and prescribed readings from English translations. *II;* (2). Professor Moss.

Courses 16, 17, 18, and 19 are open to any student of the University above freshman year.

See also courses in Comparative Literature and Philology.

COURSES FOR GRADUATES

101. Greek Oratory.—Professor Moss.

Courses 10, 12, and 14 may be taken as minors.

LATIN

1. Cicero and Pliny.—*De Amicitia;* selections from Pliny's letters; Roman life in Pliny's time; composition. Students offering three units in Latin will take this course. *I, II;* (4). Dr. Allen.

2. Livy and Terence.—Selections from Livy. Roman literature with special reference to the development of comedy; Roman life in prose and verse. Students offering four units in Latin will take this course. *I, II;* (4). Professor Barton.

4. Horace and Catullus.—The Odes of Horace and the lyrics of Catullus. *I;* (4). Dr. Hope.

Prerequisite: Latin 2.

5. Latin Composition.—This is an elementary course and will combine grammatical drill with practice in the simple forms of expression. *I;* (2). Dr. Allen.

6. Plautus.—Four or five plays, one for careful study, the others for more rapid reading; scenic antiquities. *II;* (4). Professor Barton.

Prerequisite: Latin 2.

7. Prose of the Early and the Late Empire.—Selections from Petronius, Pliny the Elder, Apuleius, and Minucius Felix. The Roman novel. *II;* (2). Dr. Allen.

Prerequisite: Latin 1 or 2, 4, 6.

9. Teachers' Course.—The purpose and methods of preparatory Latin instruction; the teacher's preparation; the books, photographs, lantern slides, and stereopticon views most valuable in preparatory work. Three years' work in Latin is requisite for this course. In exceptional cases this requirement may be waived. *II;* (1). Professor Barton.

10. Latin Composition.—A careful study of the idioms and leading principles of Latin composition with occasional imitation of assigned models. *I;* (3). Professor Barton.

Prerequisite: Latin 1 or 2, 5.

11. The Elegiac Poets.—Tibullus, Propertius, and Ovid. *II;* (3). Dr. Allen.

Prerequisite: Latin 1 or 2, 4, 6.

12. Horace and Vergil in English Translations.—Open to all students except freshmen. *II;* (1). Professor Barton.

13. Roman Life.—Both the public and private life of the Romans will be considered, but more particularly the latter. The geography and peoples of Italy, the organization of society, political and business life, the city of Rome, its public buildings, the home and home life, amusements, education, morals, and religion are some of the topics discussed. Lantern slides, pictures, and stereopticon views will supplement the lectures. Knowledge of Latin is not required. *II;* (1). Professor Barton.

14. Seneca.—Two or three plays; Roman tragedy; selections from the Epistles; Seneca as a teacher of morals. *I;* (3). Professor Barton.

Prerequisite: Latin 1 or 2, 5, 6.

15. Poetry of the Late Empire.—Selections from Ausonius, and Claudianus. *I;* (2). Professor Barton.

Prerequisite: Latin 1 or 2, 4, 6.

16. Vergil.—Selections from the Aeneid, books 7-12, the Eclogues and portions of the Georgics. *II;* (3). Dr. Allen.

Prerequisite: Latin 1 or 2, 4, 6.

17. Tacitus.—Germania, and Agricola. *II;* (3). Dr. Allen.

Prerequisite: Latin 1 or 2, 4, 6.

See also courses in Comparative Literature and Philology.

MODERN LANGUAGES

(A) COURSES FOR UNDERGRADUATES

Students taking German or French as their major are advised to choose their minor electives largely from such of the humanities as English and the other languages, European history, and psychology. Courses 7, 10, 12, 16, 19, 20, 23, 24, and 28 in German, and 3, 10, and 11 in French are primarily third year courses, and not more than ten hours of them may be counted towards a major without the approval of the head of the Department.

GERMAN

1. Elementary German.—Grammar and easy reading. *I;* (4). Associate Professor Lessing, Assistant Professor Meyer, Dr. Davis, Mr. Chiles, Dr. Wiehr, Dr. Poor, Mr. Hilmer, Dr. Eckelmann.

3. Narrative and Descriptive Prose.—Grammar and syntax, reading of easy texts, exercises in prose composition. *II;* (4). Associate Professor Lessing, Assistant Professor Meyer, Dr. Davis, Mr. Chiles, Dr. Wiehr, Dr. Poor, Mr. Hilmer.

Prerequisite: German 1, or one year of high school German.

4. Descriptive and Historical Prose.—Selections from standard prose writers. Sight reading. Prose composition. *I;* (4). Assistant Professor Meyer, Miss Blaisdell, Dr. Davis, Mr. Chiles, Dr. Wiehr, Dr. Poor.

Prerequisite: German 1 and 3, or two years of high school German.

5. Introduction to Classics.—Two or three of the classics, such as Schiller's Jungfrau von Orleans, or Goethe's Hermann and Dorothea. Prose composition. *II;* (4). Assistant Professor Meyer, Miss Blaisdell, Mr. Chiles, Dr. Poor.

Prerequisite: German 4.

6. Scientific Prose.—Practice in the rapid reading of works of a general scientific character. *II;* (4). Dr. Davis, Dr. Wiehr.

Prerequisite: German 4.

7. Heine.—Rapid translation and sight reading of selections from Heine's works; study of his life and the Young Germany movement. *I;* (3). Dr. Davis.

Prerequisite: German 5 or 6, or three years of high school German.

8. Schiller.—The life of Schiller and study of Wallenstein and other selections. *I;* (3). Associate Professor Lessing.

Prerequisite: German 10 or 24 or 28 or 29.

9. Goethe's Faust.—The Faust legend and early Faust books and plays, the genesis of Goethe's Faust, reading of both parts. *I, II;* (2). Assistant Professor Meyer.

Prerequisite: German 10.

10. Goethe.—The life of Goethe and study of selections from his lyrics, dramas, and prose works. *II;* (3). Miss Blaisdell.

Prerequisite: German 7 or 12 or 23 or first semester of 16.

11. History of Modern German Literature.—Lectures, recitations, and reports on assigned collateral reading. *II;* (2). Associate Professor Lessing.

Prerequisite: German 8 or 10 or first semester of 9 or 29.

12. Recent and Contemporary Prose Fiction.—Rapid reading of works by Freytag, Dahn, Heyse, Sudermann, and others. *I;* (2). Assistant Professor Meyer.

Prerequisite: German 5 or 6, or three years of high school German.

16. Intermediate Prose Composition.—Translation of ordinary prose into German, study of idiomatic constructions, and practice in rendering at sight. The work is conducted, as far as practicable, in German. *I, II;* (2). Miss Blaisdell, Dr. Poor.

Prerequisite: German 5 or equivalent.

19. Historical and Economic Reading.—Selections from standard writers in the field of history and economics. Primarily for students in business courses, but open to others. *I;* (3). Dr. Davis.

Prerequisite: German 5 or 6, or three years of high school German.

20. Commercial Reading and Composition.—Practice in reading and in writing commercial German, with the use of *Whitfield and Kasier's Commercial German. II;* (3). Dr. Davis.

Prerequisite: German 19.

23. The Romantic School.—Rapid translation and sight reading; reports on assigned reading. *I;* (3). Miss Blaisdell.

Prerequisite: German 5 or 6, or three years of high school German.

24. Recent and Contemporary Drama.—Study of dramas by Hauptmann, Sudermann, Fulda, and others. *II;* (3). Dr. Davis.

Prerequisite: German 7 or 12 or 23 or first semester of 16.

25. Teachers' Course.—Discussion of methods, examination of text-books. Open to seniors and special students who have not less than 20 hours' credit in German. It should be accompanied or preceded by Education 1 or its equivalent. *II;* (1). Professor Karsten and Dr. Davis.

Prerequisite: First semester of German 29 or equivalent.

26. German Literature Before the Reformation.—Lectures, recitations, and reports on assigned reading. This course is intended to cover the period not included in course 11, and students who intend to take course 11 are advised to elect course 26. *I;* (2). Associate Professor Lessing.

27. Lessing.—The life of Lessing and study of Nathan der Weise, Emilia Galotti, and other selections. *II;* (3). Assistant Professor Meyer.

Prerequisite: German 8 or 10 or first semester of 9 or 29.

28. German Lyrics.—Study of the chief lyric poets with some attention to the historical development of the lyric. *II;* (2). Assistant Professor Meyer.

Prerequisite: German 7 or 12 or 23 or first semester of 16.

29. Advanced Prose Composition. — An advanced teachers' course aiming to give some facility in idiomatic expression in speaking and writing German. Themes on Germany and German life, based on suitable reading, discussed in German. *I, II;* (2). Professor Karsten, Dr. Wiehr.

Prerequisite: German 16.

FRENCH

1. Elementary Course.—Study of grammar. Drill in pronunciation. Reading of simpler modern authors, with exercises in composition and conversation. *I, II;* (4). Professor Oliver, Associate Professor Carnahan, Mr. Fortier, Dr. Jones, Miss Owen.

2. Modern Prose, Poetry and the Drama.—Rapid reading of representative modern authors. Advanced syntax and composition. Conversation and reports on collateral reading. Outlines of French

literature. *I, II;* (4). Professor Oliver, Associate Professor Carnahan.

Prerequisite: French 1.

3. Advanced Prose Composition and Conversation. — This course may be taken alone or, more profitably, with any course higher than French 2. It is especially designed for students in the courses in business training and for those intending to teach French. *I, II;* (2). Mr. Fortier.

Prerequisite: French 2.

10. Modern French Drama.—A study of the drama in France from the beginning of the nineteenth century to the present time. Rapid translation and sight reading. Lectures. Reports on collateral reading. *I, II;* (2). Associate Professor Carnahan.

Prerequisite: French 2.

11. Victor Hugo and the Lyric Poets of France.—Rise and growth of lyric poetry in France. The chief emphasis falls upon Victor Hugo, although the poets previous to Hugo and also his contemporaries receive attention. The principles of French versification are studied and illustrated particularly in examples of Victor Hugo's poems. *I, II;* (2). Dr. Jones.

Prerequisite: French 2.

12. Modern French Novelists.—A study of the novel in France from the beginning of the nineteenth century to the present time. Hugo, deVigny, Dumas, Balzac, Flaubert, Daudet, Zola, and living writers. Lectures. Reports on collateral reading. *I, II;* (2). Associate Professor Carnahan.

Prerequisite: French 10 or 11.

14. Classic French Drama.—A history of the French drama from the beginning of the seventeenth to the end of the eighteenth century. The emphasis will fall on Corneille, Racine, Moliere in the seventeenth century; and on Marivaux, Voltaire, Beaumarchais, Le-Sage and Sedaine in the eighteenth century. *I, II;* (3). Professor Oliver.

Prerequisite: French 10 or 11.

15. Course for Teachers.—Discussion of the various methods of teaching French in this country and abroad. Actual contact with class-room problems. *I;* (1). Professor Oliver and other members of the department.

Prerequisite: Twenty-four hours' credit in French.

ITALIAN

1. Grammar and Reading.—Italian grammar with composition. Reading of modern Italian. Toward the end of the year the class will begin the study of Dante. Outlines of Italian literature. *I; II;* (3). Dr. Jones.

SPANISH

1. Elementary Course.—Grammar and easy reading. Special emphasis is laid upon the acquisition of the ability to understand spoken Spanish. *I; II;* (4). Dr. Seymour, Mr. Homs.

2. Conversation and Composition.—Reading of modern prose, conversation and composition. The vocabulary of everyday life is emphasized. Commercial correspondence. *I; II;* (2). Dr. Seymour.

Prerequisite: Spanish 1.

3. Literary Course.—Advanced reading and composition. The modern novel, drama, and poetry will be studied. Reading from Cervantes, Don Quixote. Outline of Spanish literature. *I; II;* (3). Dr. Seymour.

Prerequisite: Spanish 1.

(B) MODERN LANGUAGE COURSES FOR GRADUATES

By arrangement with the head of the department and the instructor in charge, graduate work may be done in connection with Courses German 9; 26, 11; 8, 27; 29; and French 12 and 14.

MODERN PHILOLOGY

101. The Modern Language Seminary, conducted by Professor Karsten with the coöperation of Professors Oliver, Carnahan, Lessing, and Meyer. The work is adapted to the ability and tendencies of the students. The primary object is to give training in original research. The results of the work, when of value, may be published in the *Journal of English and Germanic Philology.*

102. Introduction to the Study of Languages.—Lectures; discussions of special topics. The psychology and physiology of human speech; principles and methods of linguistic studies. *I;* (1). Professor Karsten.

GERMANIC LANGUAGES

103. Introduction to the Historical Study of the Germanic Languages.—Lectures; discussions of special topics. Survey of the early history of the Germanic peoples, classification of their languages, outline of Germanic phonetics and morphology (Urgermanisch). *II.;* (2). Professor Karsten.

104. Gothic.—An introductory study of its grammar and literature. First semester; two hours a week. Professor Karsten.

105. Old High German.—Grammar and interpretation of the oldest literary documents. First semester; two hours a week. Professor Karsten.

106. Middle High German.—Grammar and interpretation of selected texts. Second semester; two hours a week. Professor Karsten.

107. Old Saxon.—Grammar and interpretation of parts of the Heliand and the Genesis. Second semester; two hours a week. Professor Karsten.

108. Old Norse.—Grammar and interpretation of Icelandic and Norwegian texts. Second semester; two hours a week. Professor Karsten.

109. German Literature from 1786 to 1805.—The course will include Goethe's Italian journey, the period of Goethe's and Schiller's friendship, the birth of the Romantic movement. Especial attention will be given to the influence of Goethe and Schiller upon each other as shown by their correspondence and by their works during this period. First semester; three hours a week. Assistant Professor Meyer.

110. Early German Drama.—The medieval religious drama in Germany, the Schrovetide plays, the sixteenth century drama under the influence of humanism and the Reformation, with an especial study of Hans Sachs. First and second semester; two hours a week. Assistant Professor Brooks. [Not given in 1907-8].

111. Hebbel.—Lectures; investigations of special topics. Second semester; two hours a week. Dr. Wiehr.

113. German Literature of the Fifteenth Century.—After a survey of the literature on the background of the general history of the time, some such topics as Sebastian Brant, the Mastersingers and the Folksong, the Prose Romances, are studied in detail. *I;* (2). Associate Professor Lessing.

114. German Literature of the Sixteenth Century.—The Reformation and its antagonists. Luther; Murner; Hans Sachs; the church hymn; the chap-books. *II;* (2). Associate Professor Lessing.

115. German Literature of the Nineteenth Century.—Special attention will be given to the drama. *I, II;* (2). Associate Professor Lessing.

116. Early Middle High German Lyrics.—The sources and beginning of the Minnesong. *II;* (2). Dr. Poor.

ROMANCE LANGUAGES

102. Old French Readings.—Readings from the earlier monuments of mediaeval French literature, including the Song of Roland and the works of Christian of Troyes. Study of the mediaeval literary history of France. *I; II;* (2). Professor Oliver.

103. Old French Phonology and Morphology.—A study of the phonetic laws underlying the development of Old French from Low Latin. *I, II;* (2). Associate Professor Carnahan.

104. Old Spanish.—Reading of the older monuments of Spanish literature. Phonetics and syntax. *I, II;* (2). Dr. Seymour.

105. Old Italian Readings and Historical Grammar of Italian. *I, II;* (2). Dr. Jones.

106. The Old French Dialects with Special Reference to Anglo-Norman.—*II;* (2). Professor Karsten, Mr. Fortier.

COMPARATIVE LITERATURE AND PHILOLOGY

1. Greek Literature.—From English readings. This course must be taken as Greek 17, 18 or 19, which see.

2. Latin Literature.—From English readings. This course must be taken as Latin 12, which see.

3. Development of the Drama.—(A)—Study of the Greek and Roman drama in English. *I;* (2). Professors Moss and Barton. (B)—Study of the Scandinavian, French, and German drama in English. *II;* (2). Professors Dodge, Oliver and Assistant Professor Meyer.

Prerequisite: One year of University work.

Students in course A may follow the study of the Greek drama through the semester as Greek 18 (which see) with credit for the latter only.

4. General Introduction to the Science of Language.—The essential principles of the life and growth of language; outlines of the science of phonetics; classification of languages; characteristics of the various branches of the Indo-European family of languages; Indo-European phonology. *I;* (2). Dr. Allen.

Prerequisite: Latin 2, Greek 4, German 1, or French 1.

6. Historical Latin Grammar.—Historical treatment of inflections and sounds of Latin in its relation to the other Indo-European languages. *II;* (2). Dr. Allen.

Prerequisite: Latin 6; Philology 4.

7. History of Classical Philology.—*II;* (1). Dr. Allen.

Prerequisite: Latin 2; Greek 4.

ENGLISH

ENGLISH LANGUAGE AND LITERATURE

FOR UNDERGRADUATES

1. Select Periods of English Literature.—*I;* (4). Assistant Professor Baldwin, Mr. Guild, Dr. Jones, Miss Kyle, Mr. Eno, Mr. Houston, Mr. Sears, Mr. Phillips, Dr. Zeitlin, Mrs. Fawcett, Mr. Van Doren.

27. Prose Writers of the Nineteenth Century.—*II;* (4). Associate Professor Fulton, Assistant Professor Baldwin, Dr. Jones, Miss Kyle, Mr. Eno, Mr. Houston, Mr. Sears, Mr. Phillips, Dr. Zeitlin, Mrs. Fawcett, Mr, Van Doren.

Prerequisite: English 1.

16. American Literature.—*I;* (3). Mr. Eno, Mr. Sears.

Prerequisite: English 1.

23. Elementary Course in Shakspere.—Introductory to English 5. *II;* (3). Dr. Sherman, Mr. Guild.

Prerequisite: English 1.

29. English Literature.—1557-1625, exclusive of the drama. *I;* (2). Assistant Professor Baldwin.

Prerequisite: Eight hours of English Literature.

30. English Literature.—1625-1688, exclusive of the drama. *II;* (2). Assistant Professor Baldwin.

Prerequisite: Eight hours of English Literature.

31. English Literature.—1688-1744. *I;* (3).

Prerequisite: Eight hours of English Literature. (Not given in 1907-1908).

32. English Literature.—1744-1798. *II;* (3).

Prerequisite: Eight hours of English Literature. (Not given in 1907-1908).

33. English Literature.—1798-1832. *I;* (3). Dr. Zeitlin.

Prerequisite: Eight hours of English Literature.

34. English Literature.—1832-1892. *II;* (3). Dr. Zeitlin.

Prerequisite: Eight hours of English Literature.

FOR GRADUATES AND UNDERGRADUATES

19. Literary Study of the Bible.—In the first semester the Psalms and the Prophets (lyric poetry and oratory) are studied; in the second semester, Proverbs, Ecclesiastes, and Job (literature of wisdom). *I, II;* (3). Assistant Professor Baldwin.

Prerequisite: Eight hours of English Literature. (The second semester may be taken without the first).

15. Teachers' Course.—Methods of teaching English Literature and composition in the high school. *II;* (2). Professor Dodge, Professor Greenough, and Associate Professor Fulton.

Prerequisite: Twenty hours of English.

5. Shakspere and His Contemporaries.—*I, II;* (3). Professor Dodge.

Prerequisite: Fourteen hours of English Literature. (The second semester may be taken without the first).

7. English Fiction.—*I, II;* (3). Mr. Houston.

Prerequisite: Fourteen hours of English Literature.

35. The Drama.—1644-1900. *I, II;* (3). Dr. Sherman, Mr. Guild.

Prerequisite: Fourteen hours of English Literature.

24. Browning.—Rapid Critical Reading. *I, II;* (3). Miss Kyle.

Prerequisite: Fourteen hours of English Literature.

17. History of the English Language.—*I, II;* (2). Associate Professor Fulton.

Prerequisite: Eight hours of English Literature.

8. Old English (Anglo-Saxon).—Grammar, Prose, and Short Poems. *I, II;* (3). Professor Dodge.

Prerequisite: Twelve hours of English Literature, or eight hours of English and eight of German.

10. Beowulf and Elene.—*I, II;* (3). Professor Dodge.

Prerequisite: English 8.

25. Chaucer, Critical Reading.—*I, II;* (3). Dr. Jones.

Prerequisite: Twelve hours of English Literature. After 1907-1908, either English 8 or 17 will be required in addition.

26. English Ballads and Metrical Romances.—*I, II;* (3). Dr. Jones.

Prerequisite: Twelve hours of English Literature and either English 8 or 17. (Not given in 1907-1908).

36. Eighteenth Century Writers.—*I, II;* (3). Professor Greenough.

Prerequisite: Eighteen hours of English Literature.

FOR GRADUATES

101. Research in Special Periods.

A. Thirteenth and Fourteenth Centuries. Dr. Jones.

B. Sixteenth Century. Professor Dodge, Dr. Sherman.

C. Seventeenth Century. Assistant Professor Baldwin.

D. Eighteenth Century. Professor Greenough.

E. Nineteenth Century. Associate Professor Fulton.

RHETORIC

FOR UNDERGRADUATES

1. Rhetoric and Themes.—Required for students in the Colleges of Literature and Arts, Agriculture, Science, and Engineering. *I, II;* (3). Professor Greenough, Associate Professor Fulton, Assistant Professor Baldwin, Mr. Scott, Mr. Guild, Dr. Jones, Mr. Eno, Mr. Houston, Dr. Zeitlin, Mr. Sears, Mr. Phillips, Mr. Van Doren, Mrs. Fawcett, Miss Harbarger.

3. Daily Themes.—*Bates's Talks on Writing English, first and second series. I, II;* (4). Professor Clark, Mr. Scott, Miss Kyle.

Prerequisite: Rhetoric 1.

20. English Composition. — Two four-page themes or one eight-page theme a week. The purpose of this course is to give students the opportunity to organize and write longer themes than are required in course 3. *I, II;* (3). Professor Clark.

Prerequisite: Rhetoric 1.

11. Composition and Literature.—For students in the College of Engineering who elect English as their language. The course will be about equally divided between composition and English prose literature. *II;* (4). Professor Clark.

10. Business Writing.—The first semester will be devoted to business correspondence, with practice in incidental writing, summaries, etc. The second semester will include advertising, preparation of copy, and proofreading. The second semester may not be taken without the first. *I, II;* (2). Mr. Phillips.

12. Newspaper Writing.—Problems in reportorial and editorial work, with weekly assignments on actual cases. Lectures, with class discussions. The second semester may not be taken without the first. *I, II;* (2). Mr. Scott.

Prerequisite: Rhetoric 1 and 3 or 1 and 20.

12a. Agricultural Journalism.—A course on the management of agricultural papers and agricultural columns of weeklies, and in preparation of material for the agricultural press. *II;* (2). Mr. Scott and special lecturers.

15. Extended Assignments.—A continuation of course 1, presenting larger problems of reportorial work. Selecting and developing longer news stories; the collecting and arranging of scattered news facts to show their larger significance and interest. *I;* (2). Mr. Scott.

Prerequisite: Rhetoric 12.

16. Exposition.—Study of the principles underlying the expository method; analysis of masterpieces of exposition, both literary and scientific; themes. *I;* (3). Mr. Scott.

Prerequisite: Rhetoric 1.

21. Editing and Editorial Writing.—This course is planned to exercise the student's judgment as to the significance of events and facts in public affairs, and to promote the sound and tactful presentation of his opinions. It aims to cultivate his ability to see and understand the application of history, economics, and political science to public affairs, local or other, that come within his observation. Emphasis is laid on developing a clear, dignified, restrained style. *II;* (3). Mr. Scott.

Prerequisite: Rhetoric 12.

FOR GRADUATES AND UNDERGRADUATES

6. English Composition (Advanced Course).—*I;* (3). Professor Clark.

Prerequisite: Fourteen hours of Rhetoric or of Rhetoric and English.

18. Art of Criticism.—Study of selected masterpieces in English literary criticism; reports and essays. The works chosen for

study will be, for the most part, from the essays of Lamb, Coleridge, De Quincey, Carlyle, Arnold, and Pater. *II;* (3). Associate Professor FULTON.

Prerequisite: Ten hours of Rhetoric, and thirteen hours of English Literature.

17. PRINCIPLES OF CRITICISM.—A study of the principles underlying the art of criticism; reports and essays. *I;* (3). Associate Professor FULTON.

Prerequisite: Ten hours of Rhetoric, and ten hours of English Literature.

19. HISTORY AND PRINCIPLES OF ENGLISH VERSIFICATION.—Theory of English metre and rhythm; history of the development of the forms of English poetry. *II;* (2). Mr. SCOTT.

Prerequisite: Ten hours of Rhetoric, and eleven hours of English Literature. [Not given in 1907-8.]

PUBLIC SPEAKING

7. PUBLIC SPEAKING.—An introductory course in public speaking —vocal, breathing, action, and declamation exercises, supplemented by text-book and individual instruction. The course may be begun in either semester. *I, II;* (3). Mr. HALLIDAY, Miss BRADFORD.

4. THE ART OF DEBATE.—The study and application of the principles underlying debating. *I, II;* (3). Mr. HALLIDAY.

Prerequisite: Rhetoric 1 and 7.

5. EXTEMPORE SPEAKING.—*I, II;* (1). Mr. HALLIDAY.

Prerequisite: Rhetoric 1 and 7.

9. DRAMATIC READING.—Interpretation of text, character, and situation in dramatic masterpieces. Simple platform reading. Public presentation of a Shaksperean play, or special scenes. *I, II;* (3). Mr. GUILD.

Prerequisite: Rhetoric 7.

13. PRACTICE IN DEBATING.—Students who have shown proficiency in debating, and who wish to take part in any of the intercollegiate debates should register in this course if they wish to receive credit for their work. *I, II; three meetings a week.* Mr. HALLIDAY.

14. ORATORICAL COMPOSITION AND DELIVERY.—The leading English and American orations are read and criticized. Students write and deliver two orations. Lectures and supplementary reading. *II;* (3). Mr. HALLIDAY.

Prerequisite: Rhetoric and Oratory 1 and 7.

THE SOCIAL SCIENCES

HISTORY

COURSES OPEN TO FRESHMEN

(Courses 1 and 11 will count for 2 hours only if taken by seniors).

1. The Medieval and Modern History of Continental Europe.—This course will furnish the best general introduction to the advanced courses of the department. The second semester cannot be taken separately. *I, II;* (3). Assistant Professor Alvord, Dr. Larson, Dr. Paetow.

11. The Political History of England.—This course may be advantageously combined with that in English economic history (Economics 7). *I; II;* (3). Dr. Larson.

UNDERGRADUATE COURSES NOT OPEN TO FRESHMEN

3. The History of the United States.—The first semester will cover the colonial era, the Revolution, and the genesis of the federal constitution. The second semester will cover the history of the United States under the constitution. The two semesters constitute distinct courses and may be taken separately. *I, II;* (3). Professor Greene.

Prerequisite: One year of college work, including, if possible, History 1 or 11.

5. The History of Greece.—*I, II;* (3). Assistant Professor Alvord.

6. The History of Rome.—*I, II;* (3). Assistant Professor Alvord. [Not given in 1907-8.]

Courses 5 and 6 will ordinarily be given in alternate years.

7. The Revolutionary and Napoleonic Era.—This course will include a survey of French conditions in the eighteenth century before 1774, an account of the events between 1774 and 1789 which precipitated the Revolution in France, the reform work of the early years of the Revolution, and the rise and dominance of Napoleon in France and Europe. *I;* (4). Professor Ford.

Prerequisite: History 1.

9. The Period of the Italian Renaissance.—*II;* (3). Dr. Paetow.

Prerequisite: History 1.

12. The History of Germany.—Special attention is given to the rise of Prussia and the establishment of the new German Empire. *I; II;* (3). Professor Ford.

Prerequisite: History 1. Ability to read German is also desirable.

17. The History of Illinois.—The subject is treated not from a purely local point of view, but as illustrating the development of a typical commonwealth in the Middle West. *I;* (2). Professor Greene, Mr. Alvord.

Prerequisite: History 3.

18. The Teaching of History.—This course is intended especially for students who expect to teach history in secondary schools. *II;* (1). Professor Greene and other members of the department. (Open to seniors only).

Prerequisite: History 1 and 3 or their equivalent.

20. Europe in the Nineteenth Century.—An account of the national movements of the nineteenth century and of those European political conditions which lie at the basis of modern world politics. *II;* (4). Professor Ford.

Prerequisite: History 1.

courses for graduates and qualified undergraduates

(The ability to use French and German is desirable in all of these courses and is essential in some of them).

4. English Constitutional History.—Special emphasis is laid on the formative period. This course is recommended for students who wish to specialize in English history, in political science, or in law. *I; II;* (3). Dr. Larson.

Prerequisite: History 1 or 11.

8. Culture in the Middle Ages.—The main object of this course is to present the intellectual side of medieval civilization. The broad outlines of social and economic development will serve as a background. Open to graduates and to advanced undergraduates who have had History 1 or an equivalent. *I;* (3). Dr. Paetow.

Prerequisite: History 1.

13. American History, 1760-1789.—The colonies in 1760, the American Revolution, and the formation of the state and federal constitutions. *I;* (3). Professor Greene.

Prerequisite: History 3.

15. The Constitutional and Political History of the United States since 1860.—*II;* (3). Professor Greene.

Prerequisite: History 3. [Not given in 1907-08].

19. Prussia During the Era of Reform and the Wars of Liberation, 1807-1815.—This course involves a close study of a limited field of Prussian history. *I; II;* (2). Professor Ford, (Open to seniors and graduate students).

Prerequisite: History 7 or 12 and a reading knowledge of German.

21. The Reform Legislation in France, 1789-1793.—A study of those measures which constitute the true Revolution of France. *I; II;* (2). Professor Ford. (Open to seniors and graduate students). [Not given in 1907-08].

Prerequisite: History 7 and a reading knowledge of French.

22. American History, 1820-1860.—An intensive study of the period, including social as well as political history. *II;* (3). Professor Greene.

Prerequisite: History 3.

COURSES FOR GRADUATES

(Open also to seniors writing theses).

101. Seminary in American History.—*I; II;* (2) (or more at the option of the students and instructor). Professor Greene, Mr. Alvord.

102. Seminary in English History.—This course is adapted to students who wish to write theses in English history. *I; II;* (2 or more at the option of the students and the instructor). Dr. Larson.

103. Historical Bibliography and Criticism.—This course is designed to familiarize the student with historical bibliography and method. Selected problems in various fields will be worked out under the guidance of the several instructors. Required of all candidates for an advanced degree in history who do not present evidence of similar training elsewhere. *I; II;* (2). Professor Greene, Professor Ford, Mr. Alvord.

104. Seminary in Modern European History.—In 1907-08 the course will deal with the regeneration of Prussia between 1807 and 1813. *I; II;* (2) (or more at the option of the students and the instructor). Professor Ford.

ECONOMICS

The department of economics includes general economics, economic history, finance, commerce and industry.

Courses 7, 22 and 26, English Economic History, the Economic History of the United States and Commercial Geography, are open to freshmen without previous requirement. Courses numbered 101 and above are open to graduate students only. The other courses, excepting 2, 16, 34 and 34a, are open to both graduate and undergraduate students, but the former are required to do more work and of a higher grade in these courses than are the latter.

1. Principles of Economics.—A beginners' course in the underlying principles of the science. *I;* (5). Professor Kinley.

Prerequisite: At least thirty hours of University work.

2. Principles of Economics.—This course is offered to junior and senior students in the colleges of engineering and agriculture. Emphasis is laid on practical economics. *I;* (2). Professor Robinson, Assistant Professor Weston. *II;* (2). Professor Dewsnup, Dr. Thompson.

3. Money and Banking.—The history and theory of money, credit, and banking. *II;* (3). Assistant Professor Weston.

Prerequisite: Economics 1, or 2 and 7 or 22.

4. Financial History of the United States.—A study of colonial and federal finance, including currency, banking, tariff and fiscal questions and a brief survey of the development of the financial systems of some of the leading states, as New York and Illinois. *I;* (3). Assistant Professor Weston.

Prerequisite: Economics 1.

5. Public Finance.—A study of public expenditures, financial administration, taxation, and public debts. *II;* (3). Assistant Professor Weston.

Prerequisite: Economics 1 and Political Science 1.

7. English Economic History.—Special attention is directed to the evolution of modern industrial institutions. *I;* (2). Dr. Thompson and others.

8. The Money Market.—An advanced course dealing with rates of exchange, functions of bill broker and banker, causes of fluctuations in rates of discount, the concentration of financial dealings at such centers as New York and London, international payments and the determination of rates of foreign exchange, the effect

of different monetary standards on international payments, monetary panics and crises, and the financial aspects of dealings on the stock and produce exchanges. *II;* (2). Assistant Professor WESTON.

Prerequisite: Economics 3.

9. BANKING.—This is a course in the study of practical banking with special reference to the United States, England, Germany, France and the Orient. *I;* (2). Assistant Professor WESTON.

Prerequisite: Economics 3.

10. CORPORATION MANAGEMENT AND FINANCE.—*I;* (3). Professor ROBINSON.

Prerequisite: Economics 1 and 3, or (for engineers) 2 and 16A.

11. INDUSTRIAL CONSOLIDATIONS.—The development of industrial consolidations; the growth of monopoly; monopoly prices and methods; the ability of trusts to affect prices, wages, interest, and profits; and the proposed plans for controlling trusts. *II;* (3). Professor ROBINSON.

Prerequisite: Economics 10.

12. THE LABOR PROBLEM.—The labor movement and its social significance. The progress of the laboring classes, the legal relations of employers and employed, wages, strikes, arbitration, labor organizations, and similar topics, are studied. *II;* (3). Professor KINLEY.

Prerequisite: Economics 1, 3, or 2 and 7 or 22.

13. RAILWAY MANAGEMENT.—This course considers, from the administrative standpoint, railways as factors in the social and industrial development of the United States, and treats the topics historically and geographically as well as from the view-points of organization, management, and finance. *I;* (3). Professor DEWSNUP.

Prerequisite: Economics 1, or 2 and 7 or 22. From junior and senior engineers Economics 2, only, will be required.

16. ECONOMIC PROBLEMS.—Section A, consisting wholly of engineers, takes up the study of railway problems, taxation of corporations, and the labor question. Section C, composed of students from the College of Agriculture, takes up special topics relating to agriculture. *II;* (2). Professor KINLEY, Professor ROBINSON, Assistant Professor WESTON.

Prerequisite: Economics 1 or 2.

18. ECONOMIC SEMINARY.—*I, II;* (4-8 for the year). Professor KINLEY and other members of the department.

20. History and Literature of Economics to the Year 1850. —The purpose of this course is to trace the development of economic thought from classical antiquity to the middle of the nineteenth century. Emphasis is placed upon the relation of economics to philosophical and political theories, as well as to political and industrial conditions. *I, II;* (2). [Not given in 1907-08.]

Prerequisite: Ten hours in economics.

21. Socialism and Social Reform.—*II;* (3). Dr. Thompson.

Prerequisite: Course 1, or 2 and 7 or 22.

22. The Economic History of the United States. — This course is an inquiry into the trend of our development and into the physical, economic, and political forces which have directed and controlled it. Attention is given to the history of some specific great industries, such as the iron and steel industry, cotton manufacture, shipping, etc. No juniors or seniors are admitted to this course. *II;* (2). Professor Robinson, Dr. Thompson.

24. Statistics.—See Mathematics 29, 30 and 31.

26. Commercial Geography.—A brief study of the various natural and artificial conditions which affect commercial and industrial development, followed by a somewhat detailed consideration of the more important products and industries of various countries; with special reference to the present industrial and commercial conditions of the United States. *I;* (3), *II;* (3). Professor Fisk.

27. History of Commerce.—A general survey of ancient, mediaeval and modern commerce, with special stress on the commercial development of Europe since the discovery of America. This may be advantageously taken in connection with Economics 30. *I;* (3). Professor Fisk.

Prerequisite: Economics 7, 26 and six hours of history.

28. Domestic Commerce and Commercial Politics. — This course includes a study of credits and collections, the general principles of buying and selling as well as a consideration of the various forms of commercial organization such as general wholesale and retail trade, markets and fairs, peddling, department, mail-order, co-operative and company stores. *I;* (3). Professor Fisk.

Prerequisite: Economics 1, 7 and 26. [Not given 1907-08].

29. Foreign Commerce and Commercial Politics.—A study of the various commercial systems (mercantile, free trade, and protective); classes and administration of customs tariffs; commercial

treaties, including premiums, reciprocity and most favored nation relations; how foreign purchases and sales are effected; commercial statistics and balances; institutions for furthering export trade (commercial museums and bureaus of information, sample houses, consular reports, etc.) *II;* (3). Professor Fisk.

Prerequisite: Economics 1, 7, and 26.

30. History of the Commercial (Tariff) Policy of the United States.—This course includes a historical study of measures, such as tariff legislation, commercial treaties, laws regulating coastwise navigation, tonnage duties, etc., which have an important bearing on the commercial side of the foreign relations of the United States. *II;* (3). Professor Fisk.

Prerequisite: Economics 1.

31. History of the Commercial Relations of the United States.—This comprises a study of the general trade relations of the United States with foreign countries as well as a more detailed consideration of our commercial relations with certain countries. It is desirable, though not required, that this course be taken in connection with 35. *I, II;* (2). Professor Fisk.

Prerequisite: Economics 1, 7, 26, and six hours of modern history.

[Not given in 1907-8.]

32. Domestic and Foreign Markets of the United States.—One hour a week is devoted to a study of the distribution and domestic marketing of American products, especially farm products, while the second hour is given to a study of foreign markets for American exports. The aim in the latter will be to consider how we may most advantageously develop our present foreign markets and open up new fields for American products. It is desirable, though not required, that this course be taken with 35. *I, II;* (2). Professor Fisk.

Prerequisite: Courses 27, and 30, or 28 and 29, or an equivalent amount of economics.

33. Economics of Insurance.—The historical development of insurance, and an extended discussion of its economic aspects. The various forms of insurance,—fire, accident, employment and life,—from the standpoint of internal organization and from that of social service. Rates, policies, investments, corporate management, accounting, public supervision, and insurance law. *I;* (2). Professor Robinson.

Prerequisite: Economics 1, or 2 and 7 or 22.

34. Corporation Accounting.—The reports of railway, banking and industrial corporations are analyzed in order to ascertain their condition and their financial operations, and also to apply the principles to other cases. *I;* (3). Professor Robinson.

Prerequisite: Economics 1, 10, and a knowledge of elementary book-keeping.

34a. Auditing.—This course is based upon the work of course 34 and applies the principles of accounting to the auditing of various kinds of business enterprises. *II;* (3). Professor Robinson. Mr. Chase.

Prerequisite: Economics 34.

35. Consular and Diplomatic Service.—The basis of this course is the consular and diplomatic relations of the United States. Some attention, however, is paid to the foreign service of other important countries. It is desirable, though not required, that this course be taken with 31 or 32. The course may be taken by any junior or senior who has had at least 3 hours each of economics, history, and political science. *I, II;* (1). Professor Fisk.

[Not given in 1907-8.]

41. Railway Organization and History.—A study of the details of railway organization, with reference to varying types, combined into a survey of the growth of the railways of the United States. Under this latter head some account of the history of pooling, of the movement towards railway consolidation and unity of control, and of the present organization and attitude of railway labor will be given. A few lectures will be devoted to a statistical review of the growth of railway traffic. Professor Dewsnup.

Prerequisite: Economics 1; for engineers, Economics 2.

42. Railway Administration.—This course deals in detail with (1) railway finance and taxation, (2) theory of rates, and (3) state administration in the United States and abroad. *I;* (3). Professor Dewsnup.

Prerequisites: Economics 1 and 41; for engineers, Economics 2. [Not given in 1907-08.]

43. Traffic Administration.—The work of the freight and passenger traffic departments is treated with reference to general problems, classification of business, stimulation of business by advertising and other means, necessary forms and reports, special traffic claims, classifications and traffic, interrelation of railways in traffic matters. *I,* (3). Professor Dewsnup.

44. Railway Transportation.—The train service, train despatching and the block system of train working will be emphasized. In connection with this, the subject of train speed and train accidents will be given some attention. The handling of the passenger service and some study of passenger terminal facilities will be included in the course. *II;* (2). Professor Dewsnup. [Not given in 1907-08]

45. Railway Practice.—A careful study of the design of team tracks, freight houses and yards, with reference to economy and expedition of operation; methods of operation; fast freight services; car service and demurrage arrangements. A considerable portion of the course will also be assigned to the economics of railway location and operation. *I;* (2). Professor Dewsnup. [Not given in 1907-08.]

46. Railway Literature.—This course can be taken for one or two semesters. Students in Railway Administration will generally enter it in the second semester of the Junior year. The object of the work of the course is to familiarize the student with the current railway literature bearing upon his particular interests. Each student is required to keep himself supplied with the current number of one of the railway weeklies. *I; II;* (1). Professor Dewsnup. [Not given in 1907-08.]

47. Foreign Railway Systems.—A general study of some one foreign railway system, varying from time to time. In 1908-9 the English railway system will be studied. The organization, methods of operation, and political and other relations of the system will be detailed. *II;* (2). Professor Dewsnup. [Not given in 1907-08.]

48. The Economic Problem of the Interurban Railroad.—The financing, management and economic and social effects of the electric interurban railroad and its relation to the steam road. *II;* (2). [Not given in 1907-08.]

49. Economic Theory of Railway Location.—The consideration of railway location from the standpoint of economics, supplementing the engineering theory. *I;* (1). [Not given in 1907-08.]

Law B, a course in the law of contracts, negotiable instruments, agency, partnerships, business corporations, sales of personal property, bailments and carriers, guaranty and suretyships, insurance and real estate, will be found under Law.

COURSE FOR GRADUATES

Course 8, 10, 11, 12, 13, 14, 18, 20, 21, 23, 25, 27, 28, 29, 30 to 33, and 35, are counted for graduate work for students with the requisite preparation, but such students are required to do more work, and of a higher grade, than undergraduates.

101. RECENT ECONOMIC THEORY.—*I, II.* Professor KINLEY.

103. SEMINARY IN RAILWAY ADMINISTRATION.—Advanced students in this subject make a detailed study of one of the branches of railway administration. *I, II;* (2). Professor DEWSNUP.

104. SEMINARY IN COMMERCE.—A study of present international commercial relations, with special reference to the trade conditions of the United States and the extension of her trade to foreign markets. *I, II;* (2). Professor FISK.

106. TAXATION.—*I, II;* (2). Professor WESTON.

107. THE CORPORATION IN ECONOMIC EVOLUTION.—*I, II;* (2). Professor ROBINSON.

POLITICAL SCIENCE

1. AMERICAN GOVERNMENT.—A course introductory to the study of national government in the United States, particular emphasis being given to historical development, organization, powers, limitations and practical working. *I;* (3). Professor GARNER.

Required: At least 30 hours of University work.

2. EUROPEAN GOVERNMENTS.—A comparative study of the national political systems of Great Britain, France, Germany, Italy, and Switzerland, with special reference to constitutional beginnings, political organization, methods of legislation and adminstration, and constitutional guarantees for the protection of individual rights. Open to juniors, seniors, and graduate students who have had course 1, or its equivalent. *II;* (3). Professor GARNER.

3. COMPARATIVE STATE CONSTITUTIONS.—A study of the evolution of the American state constitution from the colonial charter; powers, rights and obligations of states under the Federal Constitution; methods of formation and of admission to the Union; comparative study of the organization of commonwealth government; constitutional resemblances and diversities. *II;* (3). Professor GARNER.

Required: Political Science 1, or its equivalent.

4. MUNICIPAL GOVERNMENT.—A study of the organization and administration of city government in the United States and in

Europe. Emphasis is given to the causes which have led to the phenomenal growth of cities; the powers and liabilities of municipal corporations; and the problems of governing the modern municipality, particularly those relating to urban transportation, police, light and water supply, charities, education, municipal ownership of public utilities, etc. Lectures, assigned readings and reports. *I;* (2). Professor GARNER.

Required: Course 1 or its equivalent.

5. FEDERAL ADMINISTRATION. — Lectures on the elements of administrative law followed by a survey of federal administrative activities. The organization and work of the nine executive departments and of the various commissions and agencies of the United States government; the administrative law governing official relations. *II;* (2). Professor GARNER.

Required: Political Science 1, or its equivalent.

6. INTERNATIONAL LAW.—The development of the law of nations; its nature, source, and present status; the equality of states; the doctrine of intervention; the laws of war and peace; the rights and duties of neutrals; the arbitration movement. Lectures, recitations, assigned readings and reports. Open to juniors and seniors. Others who are qualified may be admitted by special permission. *I;* (3). Professor GARNER.

7. AMERICAN DIPLOMACY.—A study of the genesis and present organization of the Department of State; the diplomatic service; the treaty making power; the methods and traditional principles of the foreign policy of the United States; historical review of the principal diplomatic controversies between the United States and foreign powers from the foundation of the government to the present time; the elevation of the United States to the position of a world power. Open to juniors, seniors, and graduate students only. *II;* (3). Professor GARNER.

It is recommended that this course be preceded by Course 6.

8. GOVERNMENT AND INSTITUTIONS OF ILLINOIS.—A study of the organization and administration of civil government, central and local, in Illinois. This course may be combined advantageously with History 17. *I;* (2). Professor GARNER.

SOCIOLOGY

1. GENERAL SOCIOLOGY.—An attempt to develop clearly the fundamental concepts of sociology, to summarize certain of its main

teachings and to render familiar its distinctive points of view in the study of human affairs. *I;* (3). Professor Hayes.

Prerequisite: Junior standing or equivalent preparation. It is exceedingly desirable that at least one course in psychology should precede or accompany this course, preferably Psychology 7.

2. Social Control and Sociological Ethics.—An explanation of the methods by which society controls the conduct, beliefs, and desires of its members, by law, religion, education, public opinion, and other and subtler agencies; together with a study of the rational motives of conduct revealed by analysis of the facts of social life. *II;* (3). Professor Hayes.

Prerequisite: Sociology 1.

3. Comparative and Genetic Sociology.—A description and comparison of different modes of human activity, (economic, political, legal, ethical, religious, domestic, and those pertaining to knowledge, art, amusement, etc.,) which prevail among savage, barbarous and civilized peoples; together with a theory of social development, illustrated by the facts described and affording both an hypothesis for their explanation and a theory of the method of progress. *I;* (3). Professor Hayes.

Prerequisite: The same as for Sociology 1. It is highly desirable that Sociology 1 should precede or accompany Sociology 3.

4. Psychological Sociology.—In this course psychological data are employed in explaining social facts. Attention is largely devoted to the way in which particular social activities are conditioned by the other activities in the presence of which they are carried on. The treatment includes such subjects as the movements of minds in groups and masses, custom, fashion, conventionality, leadership, innovation, mobs, public sentiment and public opinion. *II;* (3). Professor Hayes.

Prerequisite: Sociology 1.

5. Charities and Corrections.—The prevention and treatment of pauperism and crime; and, in general, practical methods of diminishing the prevalence of undesired social activities, and of increasing the prevalence of desired activities. *II;* (3). Professor Hayes.

Prerequisite: Sociology 1 or Economics 17.

101. Sociological Method.—A study of the method of advancing the science of sociology, especially a discussion of the adapta bility to sociological investigation of the methods described in cer

tain great works on methodology, as for example, Pearson's Grammar of Science, Wundt's Methodenlehre, erster und vierter Abschnitt, Seignobos' LaMethode Historique Appliquée aux Sciences Sociales. *I;* (3). Professor HAYES.

This course is intended for graduate students who have taken or are completing courses 1, 2, 3, 4 and 5.

102. THE DEVELOPMENT OF SOCIOLOGY.—A reading course in the original works of the writers who have contributed most to the development of sociology, accompanied by discussions with the instructor. *I, II;* (3). Professor HAYES.

Prerequisite: A good reading knowledge of either German or French.

PHILOSOPHICAL STUDIES

Students are urged to take Philosophy 2 as an introduction to further courses in philosophy and psychology. This course is identical with Psychology 2.

Philosophy 2 may not be taken as fulfilling the requirement of the teacher's certificate in philosophy or psychology. Courses 5 and 9 in philosophy also may not be taken in fulfillment of this requirement in philosophy.

PHILOSOPHY

Students who make philosophy a major should take at least one year of psychology. With the exception of 1, 2 and 10, no course may be taken before the completion of two years of University work.

1. LOGIC.—An introductory study of the principles of science, beginning with judgments, the role of thought in experience, terms, propositions, and syllogisms. It includes some practice in reasoning and the detection of fallacies, and some study of the principles of scientific method. *I;* (3). Assistant Professor TAWNEY.

Prerequisite: One year of University work.

2. INTRODUCTION TO PHILOSOPHY AND PSYCHOLOGY.—The course aims to give a general view of the fields of philosophy and psychology. It first takes up the consideration of sensation and then of the higher intellectual faculties. The problems of epistemology, ontology, and cosmology are also discussed. *II;* (3). Professor COLVIN, Assistant Professors BAIRD and TAWNEY.

Prerequisite: At least one year of University work.

3. Ancient and Mediaeval Philosophy.—A rapid survey of the development of speculative thought, beginning with the early Greek philosophers and continuing through the mediaeval period. *I;* (3). Professor Daniels.

Prerequisite: Two years of University work.

4. Modern Philosophy.—The formation and development of the problems and conceptions in philosophy from Descartes to the present time. Selections from the philosophical masterpieces of this period. *II;* (3). Professor Daniels.

Prerequisite: Two years of University work.

5. Political Philosophy.—Philosophical theories of the state, historical, critical and constructive. The nature of the state, fundamental political principles, natural law and natural right. *II;* (2). Assistant Professor Tawney.

Prerequisite: Two years of University work.

7. History of Ethics.—The elements of ethics theoretical and applied. A survey of various types of ethical theory. *II;* (3). Professor Daniels.

Prerequisite: Two years of University work.

8. Esthetics.—Theory of the appreciation of art and nature; the place of such appreciation in life. (a) Primitive arts and appreciation. (b) Modifications of the esthetic (such as the sublime and the ugly). (c) Prime characteristics and relations of the various fine arts. *I;* (3). Dr. Norton.

Prerequisite: An elementary course in philosophy or psychology.

9. Political and Social Ethics.—A study of ethical principles in their application to political and social relations. *I;* (2). Professor Daniels.

10. Thought-Movements of the Nineteenth Century.—This is less a technical account of the history of philosophy than a study of the literary and popular thought-movements of this century. It is intended for students of literature and general history as much as for special students of philosophy. *I;* (2). Assistant Professor Tawney.

Prerequisite: At least one year of University work.

11. Philosophy of Religion.—The philosophical interpretation of religious consciousness, with reference to the value of a rational

view of religious ideas. Open to senior and graduate students only. *I; II;* (1). Professor DANIELS.

Prerequisite: Six hours in psychology, philosophy, or both.

12. TYPES OF EPISTEMOLOGY AND METAPHYSICS.—An historical-critical, and constructive course of lectures and discussions. Readings from recent representatives of idealism, agnosticism, realism and pragmatism. The second semester is devoted chiefly to systematic constructive work. Elective by the semester but running through the year. *I; II;* (3). Assistant Professor TAWNEY.

Prerequisite: Any two of courses 2, 3, and 4.

13. PHILOSOPHY OF NATURE.—Relations between science and philosophy. Historical sketch of the foundations of our modern conception of nature. Metaphysical value of these. The relation of evolution to causation, of mind to body and of realism to idealism in science. Open to seniors and graduate students. *II;* (3). Assistant Professor TAWNEY.

COURSES FOR GRADUATES

101. THE KANTIAN PHILOSOPHY.—A critical study of the Prolegomena, the Critiques of Pure Reason, Practical Reason, and Judgment. *I, II;* (2). Professor DANIELS.

102. CONTEMPORARY PHILOSOPHY. — An historical and critical survey of the field of philosophy at the present time, involving a brief review of the philosophical situation at the time of Kant and his contemporaries. *II;* (2). Assistant Professor TAWNEY.

103. See Psychology 103.

Courses 5, 8, 10, 11, 12, 13, with additional work, may be counted as graduate courses.

PSYCHOLOGY

Students who make psychology their major are urged to take Course 2 as an introduction to the subject. They should also take Courses 3 and 4 in experimental psychology. No student should make the subject his major without taking a minimum of six hours in philosophy, which will be considered as a part of the total number of hours required for the major in psychology. Students who desire the teachers' certificate must take Course 1 or its equivalent.

1. ELEMENTARY PSYCHOLOGY.—This course is intended for beginners in psychology. It considers sensation, imagination, percep-

tion, attention, the higher intellectual faculties, and the affective life. *I;* (3). Professor COLVIN, Assistant Professor BAIRD.

Prerequisite: One year of University work.

2. INTRODUCTION TO PSYCHOLOGY AND PHILOSOPHY.—This course is identical with Philosophy 2. *II;* (3). Professor COLVIN, Assistant Professors BAIRD, TAWNEY.

Prerequisite: One year of University work.

3. EXPERIMENTAL PSYCHOLOGY.—The object of this course is to train the student in laboratory methods, and to give him an intimate acquaintance with normal mental phenomena. Lectures and laboratory work, two two-hour periods a week. (The student should arrange, if possible, to take his laboratory work in the afternoon; any day from 2 to 4.) *I;* (3). Assistant Professor BAIRD, Dr. KUHLMANN.

Prerequisite: Psychology 1 or 2.

4. EXPERIMENTAL PSYCHOLOGY. — This course may be elected separately or as a continuation of Course 3. Lectures, M., 11; and laboratory work, two afternoons (2 to 4) a week. *II;* (3). Assistant Professor BAIRD, Dr. KUHLMANN.

Prerequisite: Psychology 1 or 2.

5. GENETIC PSYCHOLOGY.—The more substantial results of child study serve as a basis for the first part of the course, while the latter part is devoted to the phenomena of adolescence, and the intellectual problems confronting the youth. *II;* (2). Professor COLVIN, Dr. KUHLMAN.

Prerequisite: Psychology 1 or 2.

6. COMPARATIVE PSYCHOLOGY.—This course will deal with animal behavior and its interpretation; the evolution of mental life will be traced through the animal series to man. *I;* (2). Assistant Professor BAIRD.

Prerequisite: Psychology 1 or 2.

7. THE PSYCHOLOGY OF THE EMOTIONS AND THE WILL.—This course considers critically the principal phenomena of volition and feeling as distinguished from those of the intellect. Illustrations will be taken largely from biography, history, and literature. *II;* (3). Professor COLVIN.

Prerequisite: Psychology 1 or 2.

9. PHYSIOLOGICAL PSYCHOLOGY.—In this course the growth and structure of the central nervous system and of the sense organs are

outlined; the characteristics of sensation and its place among the elements of consciousness discussed, and the functions and psychology of the various sense organs presented. The physiological basis of the emotions is also considered. The work may be taken in connection with Psychology 1. Otherwise an elementary course in psychology shall constitute a prerequisite. *I;* (2). Assistant Professor BAIRD, Dr. CARPENTER.

10. THE HISTORY OF PSYCHOLOGY.—*II;* (2). Professor COLVIN.
Prerequisite: At least five hours in psychology.

11. PROBLEMS IN EXPERIMENTAL PSYCHOLOGY.—A lecture course primarily for seniors and graduates. The most prominent investigations of recent years will be given a critical discussion; their results will be evaluated and interpreted. The following topics will be considered: sensation, affection, attention, perception, emotion, memory, imagination, mental types, rhythm, judgment, the learning process. *II;* (2). Assistant Professor BAIRD.
Prerequisite: Psychology 3 and 4.

12. MINOR PROBLEMS IN EXPERIMENTAL PSYCHOLOGY.—This is an advanced laboratory course in which special investigation work is undertaken by the student. *I, II;* (2-5). Assistant Professor BAIRD.
Prerequisite: Psychology 3 and 4.

13. ABNORMAL PSYCHOLOGY.—This course deals with the pathological aspects of consciousness, including arrested mental development in children and the main forms of mental disorders in later life. Particular attention will be given to the former. *I;* (2). Dr. KUHLMANN.
Prerequisite: Psychology 1 or 2.

14. THE PSYCHOLOGY OF THE LEARNING PROCESS.—In this course the most recent results of investigation in the psychology of learning are presented and discussed. The course is intended for superintendents, principals, supervisors and all others interested in the problems of the mental processes of the child. *II;* (2). Dr. KUHLMANN.
Prerequisite: At least 5 hours in psychology.

COURSES FOR GRADUATES

101. RESEARCH.—Opportunity to investigate advanced problems in experimental psychology, and in comparative and genetic psy-

chology is offered to those properly qualified. *I, II.* Professor Colvin, Assistant Professor Baird, Dr. Kuhlmann.

102. Journal Club.—This course considers the most important problems of contemporary psychology as they are presented in current psychological and philosophical journals. The seminary method is used. Although intended for graduates, the course under certain conditions may be taken by seniors, or others properly prepared. *I, II;* (2). Professor Colvin.

103. Seminary in Philosophy and Psychology. — Open to graduates and properly qualified seniors. *I, II;* (1). Professor Daniels, Professor Colvin.

EDUCATION

The courses offered in the department of education aim to meet the needs of the prospective secondary school teacher, and of the prospective city superintendent. They are also intended to furnish other students with a knowledge of the historical facts and fundamental principles underlying the great movements in education.

1. Principles of Education.—This course considers the aim and nature of education; the problems of the child and the school and the moral and religious education of the child. *I;* (3). Professor Colvin.

Prerequisite: Two years of University work.

2. History of Education.—The emphasis is placed on the chief movements and tendencies in educational theory and practice from ancient times to the nineteenth century. The development of educational ideals, methods and curricula will be noticed, as well as their significance in relation to other social-cultural changes. *II;* (3). Dr. Norton.

Prerequisite: Two years of University work.

3. General Method.—Application of the principles of education, psychology, and logic to the art of teaching. *II;* (3). Dr. Norton.

Prerequisite: Elementary psychology or logic.

6. High School Organization and Management.—Functions of the high school; nature and needs of adolescence; student life and clubs; courses of study, programs, aims and methods; supervision and discipline; teachers; equipments; the accrediting sys-

tem; the conditions prevalent in Illinois. *II;* (3). Dr. NORTON, Assistant Professor HOLLISTER, and other instructors.

Prerequisite: Education 1.

11. OBSERVATION COURSE.—Students observe regularly and systematically the instruction in particular classes in the Academy and neighboring high schools. Definite assignments are made by the instructor and reports made by the student. Four observation periods and one conference weekly. Open to juniors and seniors. *I or II;* (3). Dr. NORTON.

13. EDUCATIONAL CLASSICS.—A critical study of the sources of the history of education. The more important educational works of Plato, Aristotle, Quintilian, Montaigne, Milton, Locke, Rousseau, Pestalozzi, Herbart, Froebel, Spencer, and others are considered. *I;* (3). Dr. NORTON.

Prerequisite: Two years of University work.

16. SOCIAL PHASES OF EDUCATION.—The school as a social factor, its relation to the home, the church, the state, and society. The relation of education to child labor, vocation and crime, educational extension, moral and religious education. *II;* (3). Dr. NORTON.

17. HERBARTIAN PEDAGOGICS.—The philosophy, psychology, and pedagogy of Herbart are critically studied and compared with other pedagogical systems. Open to properly qualified seniors. *I;* (2). Dr. NORTON.

18. PRINCIPLES OF ESTHETIC EDUCATION.—The values, ideals, and methods of esthetic education; its relation to intellectual (especially scientific) training, to moral and religious culture, and to the utilities of life; its effect on social and national life and on the general advancement of the fine arts; selection of the material of instruction, and the development of taste. Somewhat extended reference will be made to musical education. *II;* (3). Dr. NORTON.

Prerequisite: One course in psychology.

COURSES FOR GRADUATES

(These courses, though primarily intended for graduates are open to properly qualified seniors.)

101a. SEMINARY IN THE HISTORY OF EDUCATION.—*I;* (2). Professor COLVIN.

101b. SEMINARY IN THE PHILOSOPHY OF EDUCATION.—*II;* (2). Professor COLVIN.

104a. Seminary in the Course of Study.—*I.* (*Arrange number of credits.*) Dr. Norton.

104b. Seminary in Moral and Religious Education.—*II.* (*Arrange number of credits*). Dr. Norton.

MATHEMATICAL AND PHYSICAL SCIENCES

MATHEMATICS

Those students who take mathematics as their major work should take the courses numbered 1, 3 (or 2, 4), 6, 8a, 8b, 10, 11, 15, 16, 17. They should also make sixteen hours' credit in either German or French. They are advised to take also Physics 1, 3.

1. Advanced Algebra.—This course is offered for those students who wish to cover in five hours of mathematical work the subject of college algebra and that of plane and spherical trigonometry (Mathematics 3). The course presupposes a thorough working knowledge of elementary algebra through simultaneous quadratics. The same subjects are considered as in Course 2, but more briefly. *I; last seven weeks;* (2). Mr. Forsyth.

[1]2. Advanced Algebra.—This course is for those students who wish to cover in five hours of mathematical work the subject of college algebra and that of plane trigonometry (Mathematics 4).

The following topics are considered: Progressions, undetermined coefficients, binomial theorem, logarithms, permutations and combinations, probability, convergence of series (or determinants), and the theory of equations with special reference to the solution of numerical equations of the third and fourth degree. (3). Professor Miller, Assistant Professor Rietz, Assistant Professor Haskins, Dr. Sisam, Mr. Ponzer, Miss White, Dr. Neikirk, Dr. Crathorne, Dr. Börger, Dr. Reed, Mr. Emmons, Mr. Kean, Mr. Carscallen, Mr. Mathews, Mr. Forsyth, Mr. Denton.

3. Plane and Spherical Trigonometry.—This course covers the same ground in plane trigonometry as Course 4. In addition to the work outlined there, about four weeks are spent on the general principles and applications of spherical trigonometry. *I; first eleven weeks;* (3). Mr. Forsyth.

Prerequisite: Solid and Spherical Geometry.

[1]Two sections repeat the work in the second semester.

[1]4. Plane Trigonometry.—*I;* (2). Professor Miller, Assistant Professor Rietz, Assistant Professor Haskins, Dr. Sisam, Mr. Ponzer, Miss White, Dr. Neikirk, Dr. Crathorne, Dr. Börger, Dr. Reed, Mr. Emmons, Mr. Kean, Mr. Carscallen, Mr. Mathews, Mr. Forsyth, Mr. Denton.

5. Teachers' Course.—In this course special attention is given to a discussion of the methods of teaching algebra and geometry, the position of mathematics in the secondary school course, the correlation of mathematics with allied subjects, a comparative study of the leading text-books, and a brief history of elementary mathematics. *II;* (2). Miss White.

6. Analytic Geometry.—An introductory course in plane and solid analytic geometry. Sections A to O are for engineers, sections P to R are for students of the College of Science, and the College of Literature and Arts. *II;* (5). Professor Miller, Associate Professor Wilczynski, Assistant Professor Rietz, Assistant Professor Haskins, Dr. Sisam, Mr. Ponzer, Miss White, Dr. Neikirk, Dr. Crathorne, Mr. Emmons, Mr. Kean, Mr. Carscallen, Mr. Mathews, Mr. Forsyth, Mr. Denton.

Prerequisite: Mathematics 1, 3 or 2, 4.

7. Differential Calculus.—The principles of the differential calculus are developed and applied to functions of one and of several variables, with special reference to the needs of engineering students. *I;* (5). Associate Professor Wilczynski, Assistant Professor Rietz, Assistant Professor Haskins, Dr. Sisam, Mr. Ponzer, Miss White, Dr. Neikirk, Dr. Crathorne, Dr. Börger.

Prerequisite: Mathematics 6.

8a. Differential and Integral Calculus.—A general introduction to the principles of differential and integral calculus. *I;* (5). Professor Miller, Mr. Emmons.

Prerequisite: Mathematics 6.

8b. Differential and Integral Calculus (Second Course). —A continuation of 8a. The application of calculus to geometry and mechanics, begun in 8a, is extended throughout the course. *I, II;* (2). Dr. Sisam.

Prerequisite: Mathematics 8a.

9. Integral Calculus.—This course together with mathematics 7 constitutes a year's continuous work in calculus. The general

[1]Two sections repeat the work in the second semester.

principles of the integral calculus are developed with usual applications to geometrry, centers of gravity, moments of inertia, etc. A brief introduction to ordinary differential equations is also included. *II;* (3). Associate Professor Wilczynski, Assistant Professor Rietz, Asistant Professor Haskins, Dr. Sisam, Mr. Ponzer, Miss White, Dr. Neikirk, Dr. Cathorne, Dr. Börger.

Prerequisite: Mathematics 7.

10. Theory of Equations.—A continuation of the theory of equations given in college algebra (Mathematics 1, 2). It is based on *Burnside and Panton's Theory of Equations, Part One. II;* (3). Professor Townsend, Dr. Neikirk.

Prerequisite: Mathematics 2, 4 (or 1, 3), 6.

11. Theory of Determinants.—The general principles and properties of determinants, including determinants of special form and the functional determinants—Jacobians, Hessians, Wronskians. The application of determinants to the theory of equations, analytical geometry including linear transformation. *II;* (2). Professor Miller.

12. Theory of Invariants.—The general development of the theory of invariants, both from the geometric and from the algebraic side. Applications of invariants to systems of conics and higher plane curves. *I;* (3). Assistant Professor Rietz.

Prerequisite: Mathematics 8b (or 9), 11.

13a. Functions of Real Variables.—An introduction to the theory of functions of real variables, making use of the general principles of the theory of assemblages. The two courses in functions (13a, 13b) are a continuation of the work done in calculus (8a, 8b, or 7, 9). *I, II;* (3). Professor Townsend.

Prerequisite: Mathematics 8a, 8b (or 7, 9), 10.

13b. Functions of a Complex Variable.—A general introduction to the theory of functions of a complex variable. *I, II;* (3). Professor Townsend.

Prerequisite: Mathematics 8a, 8b. (or 7, 9), 10.

14. Method of Least Squares.—The fundamental principles of the subject. The following subjects are studied: Law of probability and error, adjustment of observations, precision of observations, independent and conditional observations, etc. *I;* (2). Assistant Professor Stebbins.

Prerequisite: Mathematics 8a, or 9.

15. Seminary and Thesis.—*I, II;* (3). Professor Townsend, Professor Miller, Associate Professor Wilczynski, Assistant Professor Rietz, Assistant Professor Haskins.

16. Differential Equations.—For students in the courses of engineering and of mathematics and of astronomy. It embraces the following topics: General linear equations with constant coefficients, special forms of differential equations of higher order, integration in series, etc. *I;* (3). Professor Shattuck.

Prerequisite: Mathematics 8a, or 9.

17. Solid Analytical Geometry.—A general review of the position of the plane and the right line in space and the more general properties of surfaces of the second degree. The classification and special properties of quadratics, and a brief introduction to the theory of surfaces in general. *II;* (3). Assistant Professor Haskins.

Prerequisite: Mathematics 8a (or 7), 11.

18. Higher Plane Curves.—This course includes the general theory of algebraic curves, together with the application of the theory of invariants to higher plane curves. Special study is made of curves of the third and fourth order. *II;* (3). Dr. Sisam.

Prerequisite: Mathematics 12.

20. Calculus of Variations.—This course has for its aim merely to acquaint the student with those elements of the science which are most needed in the study of the higher subjects of mathematical astronomy and physics. *II;* (3). Professor Shattuck.

Prerequisite: Mathematics 11, 16.

21. Spherical Harmonics.—This course is introduced by a short course of lectures and study of certain trigonometric series. Fourier's Theorem for developing any function of a variable in a series proceeding in sines and cosines of multiples of the variable is derived and the limitations of its validity investigated. This is followed by the study of Lagrange's, Laplace's, and Lamè's functions and their applications to astronomical and physical problems. *I;* (3). Assistant Professor Haskins.

Prerequisite: Mathematics 11, 16.

22. Potential Function.—The potential function is defined and its properties derived and discussed. The potential of various bodies, such as of wire, a spherical shell, a sphere, ellipsoid of revolution, etc., is computed. Poisson's and Laplace's Equations are

derived and discussed. Green's propositions with kindred and similar subjects are considered. *II;* (3). Assistant Professor HASKINS.

Prerequisite: Mathematics 21.

23. MODERN GEOMETRY.—This course includes, in general, a consideration of homogeneous coördinates, duality, descriptive and metrical properties of curves, anharmonic ratios, homography, involution, projection, theory of correspondence, etc. *I;* (3). Dr. SISAM.

Prerequisite: Mathematics 8a or 7, 11.

24. ALGEBRAIC SURFACES.—In this course are considered the application of homogeneous coördinates and the theory of invariants to geometry of three dimensions, and also the general theory of surfaces, together with the special properties of surfaces of the third and fourth order. *II;* (3). Dr. SISAM.

Prerequisite: Mathematics 17, 18.

25. PARTIAL DIFFERENTIAL EQUATIONS.—It deals with the integration and determination of the integration constants of such partial differential equations as arise in the study of such subjects as the flow of heat, the vibration of strings, plates, etc., and electricity. *II;* (2). Professor TOWNSEND. Dr. CRATHORNE.

Prerequisite: Mathematics 8a or 9, 16.

27. ELEMENTARY THEORY OF GROUPS.—The study of the groups which present themselves in arithmetic, geometry and trigonometry is followed by a determination and study of those which can be represented with a small number of letters. The latter part of the course is devoted to the abstract group theory and the Galois theory of equations. *I, II;* (3). Professor MILLER.

28. THEORY OF NUMBERS.—The principal subjects considered in this course are: congruences, Kronecker's modular systems, quadratic residues, quadratic forms, and algebraic numbers. *I, II;* (3). Professor MILLER.

29. AVERAGES AND THE MATHEMATICS OF INVESTMENT.—The meaning, use, and abuse of different kinds of averages. The relation of the theory of probability to averages, and the application of the elements of probability to annuities, insurance, and various branches of science. Such information relating to loans and investments as can best be put into algebraic language, and are of interest to the general student. Many practical problems are given in the

valuation of investment securities. *II;* (3). Assistant Professor Rietz.

Prerequisite: Mathematics 2.

30. Theory of Statistics.—The general methods of statistical investigation, the application of the theory of probability to statistical data, the fitting of curves to observation, interpolation, the theory of errors, and the mathematical theory of variability and correlation, the application of principles developed to problems in economics and biology. *I;* (3). Assistant Professor Rietz.

Prerequisite: Mathematics 8a, and 29.

31. Actuarial Theory.—A detailed study of the application of probability to life contingencies, the construction and graduation of mortality tables, the elements of fire insurance, and the calculation of premiums for various types of life and fire insurance. *I;* (3). Assistant Professor Rietz.

Prerequisite: Mathematics 8a, and 29.

32. Projective Differential Geometry.—This course includes a brief account of Lie's theory with applications to the theory of invariants of systems of linear differential equations. The differential properties of plane and space curves, and of surfaces are considered from a projective point of view. It is this, more general, projective standpoint which distinguishes it from the usual treatment of differential geometry which is metric. *I, II;* (3). Associate Professor Wilczynski.

Prerequisite: Mathematics 8b, 16, 17.

COURSES FOR GRADUATES

Courses 12, 13, 14, 15, 18, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, may be counted as graduate work for those students making a major in mathematics.

ASTRONOMY

Students without mathematical training may elect either course 1 or 4. Other courses should be taken in the order 3, 6, 15, 14, 7.

1. Elementary Astronomy.—This is a course for beginners and does not require mathematics. From lectures and the text, the student will be given a general view of the subject, and this class room work will be supplemented by direct observation of the sky. Some simple work will be done with the instruments of the observatory, but emphasis will be laid on those observations which can be

made without apparatus, and which the student can do in after life. *I;* (3). Assistant Professor STEBBINS, Dr. REED.

3. GENERAL ASTRONOMY FOR ENGINEERS.—This course is intended to be taken with course 6 by engineers. In the class room is given a general view of the subject, which will be supplemented by the observational work of the practical course. *II;* (3). Assistant Professor STEBBINS.

Prerequisite: Mathematics 4, 6, 7 or 8a.

4. GENERAL ASTRONOMY. — A beginners' course similar to Astronomy 1, covering the same field, but with more observational work. *II;* (5). Dr. REED.

6. PRACTICAL ASTRONOMY.—This course is offered especially for engineers. Rough and accurate determination of latitude, azimuth, and time, are the essential parts of the course; and emphasis is laid on the methods which the engineer will be able to use with the ordinary surveyor's transit. The necessary amount of spherical trigonometry is given at the beginning of the work. This course is also designed to train the student in the art of computing. *Comstock's Field Astronomy for Engineers. II;* (2). Assistant Professor STEBBINS.

Prerequisite: Mathematics 4, 6, 7 or 8a.

7. THEORETICAL ASTRONOMY.—This course begins with the elementary theory of the motions of the heavenly bodies, and is intended to lead the student up to the actual computation of a cometary orbit. *I, II;* (3). Dr. REED.

Prerequisite: Mathematics, 1, 3, 8a, 8b, or 7, 9.

9. CELESTIAL MECHANICS.—A continuation of course 7. Introduction to the theory of disturbed planetary motion. *I, II;* Dr. REED.

Prerequisite: Mathematics 16; Astronomy 7.

10. SEMINARY AND THESIS.—*I, II;* (3). Assistant Professor STEBBINS.

14. OBSERVATIONAL ASTRONOMY.—This course is intended for those who wish to become familiar with the working methods of an astronomical observatory. The problems set for solution are largely individual. *II;* (3). Assistant Professor STEBBINS.

Prerequisite: Astronomy 3, 6, 15.

15. GEODETIC ASTRONOMY.—A course in continuation of Astronomy 3, 6, for those who wish to go into goedetic work. Advanced

work with the sextant, transit, and zenith telescope. The methods taught are similar to those of the United States Coast Survey. *I;* (3). Assistant Professor STEBBINS.

Prerequisite: Astronomy 3, 6.

CHEMISTRY

1. ELEMENTARY INORGANIC CHEMISTRY.—This course deals with the general principles of the science. Alexander Smith's General Inorganic Chemistry. *I, II; for engineers* (4); *for all others* (5). Professor NOYES, Dr. BALKE, Mr. CLARK, Dr. SMITH, Dr. ISHAM, Miss FLATHER, Mr. DAVIS, Mr. MATTILL, Mr. ROGERS, Mr. NUTTALL, Mr. FRANCIS.

1a. INORGANIC CHEMISTRY.—A course in inorganic chemistry for students who have had one year of high school chemistry. The course includes class and laboratory work. *I;* (3). Professor NOYES, Dr. BALKE, Mr. CLARK, Dr. SMITH.

2. DESCRIPTIVE INORGANIC CHEMISTRY.—This course is a continuation of Chemistry 1 and is mainly devoted to a study of the metallic elements, their classification, compounds, and chemical properties. The work is from lectures and assigned text. It must be accompanied by Chemistry 3. Alexander Smith's General Inorganic Chemistry. *II;* (2). Professor NOYES, Dr. SMITH

Prerequisite: Chemistry 1.

3. QUALITATIVE ANALYSIS.—This course consists of recitations and laboratory practice in the ordinary processes of qualitative analysis. It must be accompanied by Chemistry 2. *II;* (3). Professor NOYES, Dr. BALKE, Mr. CLARK, Dr. SMITH, Dr. ISHAM, Miss FLATHER, Mr. DAVIS, Mr. MATTILL, Mr. ROGERS, Mr. NUTTALL.

Prerequisite: Chemistry 1.

5a. ELEMENTARY QUANTITATIVE ANALYSIS.—The laboratory work comprises a series of experiments which illustrate the fundamental principles of gravimetric and volumetric methods. The lectures and recitations consist of a consideration of stoichiometrical relations, the fundamental laws of chemistry and their application to the study of solutions. Medical preparatory students are given special problems in the latter part of the course. Some work in advanced qualitative analysis will be given to students in the courses in chemistry and chemical engineering. 1, (5). Dr. HOLMES, Mr. DUNIPACE, Mr. ERNEST, Mr. LEVERETT.

Prerequisite: Chemistry 2, 3.

5b. Quantitative Analysis.—Continuation of 5a. A comparative study of methods with practice in the analysis of silicates, metallic compounds and alloys. *II; Lectures; Laboratory:* (5). Dr. Holmes, Mr. Dunipace, Mr. Ernest, Mr. Leverett.

Prerequisite: Chemistry 5a.

5c. Food Analysis.—This course includes the analysis of food stuffs, grain, milled products, alcoholic beverages, baking powders, vinegars, syrups, sugars, etc. Students who have taken work amounting to five hours' credit in this course may arrange to do more advanced work along the following lines: (a) the study of methods for detecting food adulterations; (b) the separation and determination of the nitrogenous constituents of animal and vegetable foods; (c) the identification and estimation of the carbohydrate constituents of food products. *II;* (3-5). Dr. Holmes, Mr. Dunipace, Mr. Ernest, Mr. Leverett.

Prerequisite: Chemistry 5a or 13a, and 9 or 14.

6a. Metallurgy.—A general course in metallurgical processes. Lectures and assigned reading. *I;* (2). Professor Parr.

Prerequisite: Chemistry 5a.

6b. Chemical Technology.—This is a course of lectures comprising a study of technological chemistry as illustrated in those industries having a chemical basis for their principal operations and processes. Much use is made of the journals. *Thorp's Industrial Chemistry* is used as a guide. No laboratory work. *II;* (2). Professor Parr.

Prerequisite: Chemistry 5a.

8. Iron and Steel Analysis.—Analyses are made of all the constituents by both rapid, or technical, and standard methods. The course also includes the analysis of furnace slags and a study of the methods for decomposing ores and refractory products. *II;* (2). Dr. Holmes.

Prerequisite: Chemistry 5b.

9. Organic Chemistry.—The work of this course consists in the discussion of the characteristiscs of the more typical and simple organic compounds, followed by a brief consideration of most of the important classes of derivatives of carbon. *Remsen's Organic Chemistry.* Must be accompanied by 9c. *II;* (3). Assistant Professor Curtiss.

Prerequisite: Chemistry 2 and 3.

9a. Organic Synthesis.—Laboratory work for students of the chemical course, consisting of the preparation and study of typical organic compounds, to accompany Chemistry 14. *I;* (2). Assistant Professor Curtiss, Mr. Roark.

Prerequisite: Chemistry 2 and 3.

9b. Organic Synthesis and Analysis.—Continuation of 9a, including ultimate organic analysis to accompany Chemistry 14. *II;* (2). Assistant Professor Curtiss.

Prerequisite: Chemistry 9a.

9c. Organic Synthesis.—Laboratory work in organic chemistry for students of the medical preparatory course. Typical organic compounds are prepared and studied. Especial attention is directed to the organic substances of medicinal value and those of physiological importance. *II;* (2). Assistant Professor Curtiss and Mr. Roark.

Prerequisite: Chemistry 5a.

10a. Sanitary Analysis.—Lectures on history, sources, contamination, and standards of purity of potable waters and waters for industrial purposes, together with practice in analytical methods. *I;* (2). Professor Bartow.

10b. A modification of 10a to meet the requirements of students in sanitary engineering, registered in connection with Chemistry 3. Professor Bartow.

11. Research.—In the senior year a special line of work is arranged for each individual, designed particularly to develop self-reliance and initiative in dealing with new problems or topics needing comparative study or review. A thesis must be prepared embodying a thorough review of the literature of the subject, together with the work done in the laboratory. As far as possible the subject must be determined upon and reading begun in the junior year. A minimum of five semester hours is required. *I, II;* (5). Professors Noyes, Parr, Bartow, Assistant Professors Lincoln and Curtiss, Dr. Holmes, Dr. Balke, Dr. Smith, Dr. Isham.

13a. Agricultural Analysis.—This course is arranged to meet the special wants of agricultural students. The work begins with the quantitative determination and separation of the more important constituents of soils, fertilizers, and agricultural products; it includes the chemical analysis of foodstuffs, such as grains, fodders,

dairy products, and meats. *I;* (5). Dr. Holmes, Mr. Dunipace, Mr. Ernest, Mr. Leverett.

Prerequisite: Chemistry 2 and 3.

13b. Advanced Agricultural Analysis.—This course is offered to students who wish to specialize in agricultural chemistry or agricultural experimentation. The work includes the analysis of butter and cheese, the complete analysis of foods, soils, plants, plant ash, rain and drain waters, and the determination of the fuel value of foods. If desirable the work may be varied to meet the special needs of the individual student. *II;* (3, 5). Dr. Holmes.

Prerequisite: Chemistry 5a or 13a.

14. Organic Chemistry.—This course consists of lectures and recitations upon the fundamental principles and more important compounds of organic chemistry. *Noyes's Organic Chemistry.* This course must be accompanied by Chemistry 9a and 9b. *I, II;* (3). Professor Noyes.

Prerequisite: Chemistry 5a.

16. Chemistry for Engineers.—This course is arranged particularly for mechanical engineers. It involves the proximate analysis of coals, determination of calorific power, technical analysis of furnace gases, examination of boiler waters, lubricating oils, etc. *II;* (3). Professor Parr, Mr. Manuel.

Prerequisite: Chemistry 1.

17. Courses for Teachers.—Designed for those who expect to teach the subject in high schools. Round table studies of the courses in chemistry of representative high schools, of the available text and reference books, of college entrance requirements in chemistry, and of the other aspects of this course. Observation of the lectures, the laboratory work, and the quizzes of the elementary courses in chemistry in the University and in the neighboring high schools. Experimental investigation of high school texts and laboratory guides. Exercises in developing laboratory courses and in devising and assembling lecture apparatus. Special problems connected with the business side of teaching chemistry: as the selection, arrangement, and care of apparatus and chemicals. *I or II,* if five or more apply; (2-5). Mr. Clark.

Prerequisite: Eighteen hours of chemistry or the equivalent.

18. Special Courses.—Special courses as indicated below, consisting mainly of laboratory work, may be arranged for those competent to pursue them. From 1 to 10 hours' credit will be allowed in the undergraduate courses for such work.

(a) Special problems in assaying and ore treatment. Free-milling chlorination and cyanide tests. Professor PARR.

(b) Advanced metallurgical chemistry. Professor PARR.

(c) Analysis and calorimetry of fuels. Professor PARR.

(d) Paints, oils, etc. Protective coverings for wood and iron. Professor PARR.

(e) Analysis of commercial fertilizers. Dr. HOLMES.

(f) Special methods for gas analysis. Professor PARR.

21. PROXIMATE ORGANIC ANALYSIS.—Analysis and valuation of various commercial organic materials and products: (a) Pharmaceutical assaying, including the valuation of drugs and various pharmaceutical preparations, tinctures, extracts, etc.; (b) analysis of proprietary articles, medicines, pills, ointments, salves, etc.; (c) fats, waxes, oils, perfumes, flavoring extracts; (d) dye stuffs. Analysis, tests and identification of raw materials, coloring matters and dyes upon the fiber; (e) rubber, paper, fibers, inks, glue, etc. *Allen's Commercial Organic Analysis, Sadtler and Trimble's Pharmaceutical Chemistry. I;* (5 or 10). Assistant Professor CURTISS.

24. TOXICOLOGY.—Mainly laboratory work upon the detection and estimation of the more common poisons, organic and inorganic, wall papers, etc. *II;* (5). Assistant Professor CURTISS.

Prerequisite: Chemistry 2, 3, 5a, and 9.

27. QUALITATIVE ANALYSIS OF THE RARE ELEMENTS.—A detailed study of the rare elements and their compounds. The work consists mainly in the identification and separation of the elements and the study of the formation, solubilities, and chemical reactions of their salts. Reading is assigned in connection with laboratory work. *II;* (3). Dr. BALKE.

Prerequisite: Two years' work in Chemistry.

31. ELEMENTARY PHYSICAL CHEMISTRY. — This course is designed to give an elementary knowledge of the paramount facts of physical chemistry, and their relation to common and practical chemical problems. The instruction is by lectures and recitations. *Jones's Elements of Physical Chemistry. II;* (3). Assistant Professor LINCOLN.

Prerequisite: One year's work in Chemistry.

33a. PHYSICAL CHEMISTRY.—A laboratory course supplementary to course 31. The work consists of a series of experiments, chosen to familiarize the student with the general methods used in theoretical and technical work, the sources of error and the methods

of eliminating the same. *II;* (2). Assistant Professor LINCOLN.

Prerequisite: Chemistry 5a, 9, or 14a.

34. ELECTROCHEMISTRY.—Lectures and recitations. This course, which includes the modern theories of solutions, comprises a detailed study of the practical applications of electricity to chemical industrial processes, the refining of metals and their electrodeposition. Intended for students going into technical work. It is recommended that this course be supplemented with laboratory work (Course 35). *Leblanc's Electrochemistry* and *Blount's Practical Electrochemistry. I or II;* (3). Assistant Professor LINCOLN.

Prerequisite: Chemistry 1, 2, 3; Physics 1, 3.

35. ELECTROCHEMISTRY.—Laboratory work to accompany lecture course 34. This course is intended for students going into technical work and for engineers. Special emphasis is placed upon a study of the electrochemical products and the percentage yield as influenced by the current density and the kind of electrodes employed, as well as by changes in the temperature and in the concentration. *I or II;* (2, 5). Assistant Professor LINCOLN.

Prerequisite: Chemistry 5a; Physics 1, 3.

41. CHEMISTRY OF MEATS.—A course consisting mainly of laboratory work, in which students may specialize upon any of the following subjects: Chemistry of the cooking of meats; losses involved in the cooking of meats; digestibility of meats; comparative study of the methods for determining the nitrogenous constituents of meats; separation, purification and estimation of the nitrogenous constituents of meats. *I or II;* (5, 15). Professor GRINDLEY.

Prerequisite: Two years' work in Chemistry.

61. INDUSTRIAL CHEMISTRY.—A laboratory course in the preparation of chemical products from raw materials. The manufacture and testing of pure chemicals, fractionation, and other processes of the manufacturing chemist. *II;* (2). Professor PARR, Mr. MANUEL.

Prerequisite: Chemistry 5a.

65. TECHNICAL GAS AND FUEL ANALYSIS. — Examination of gases, gas mixtures, flue gases, and fuels. Determination of calorific values and calculation of efficiencies. *I;* (2). Professor PARR, Mr. MANUEL.

68a. ANALYSIS OF GLASSES AND GLAZES.—For students in ceramics. A study of methods and practice on special problems connected with the pottery industry. *I;* (3). Dr. HOLMES.

Prerequisite: Chemistry 5b.

68b. Cement Chemistry.—For students in ceramic engineering. This course includes the analysis of cements, cement materials, pottery bodies, etc. *I;* (3). Dr. Holmes.

Prerequisite: Chemistry 5b.

69. Assaying.—The fire assay of lead, gold, and silver ores. Fluxes, re-agents, and charges are studied in connection with various typical ores, and practice given in use of the crucible and muffle furnaces and in the manipulations connected with fire assaying. *I;* (1). Professor Parr, Mr. Manuel.

Prerequisite: Chemistry 5a.

93. Journal Meeting.—For juniors, seniors, and graduates. *I, II;* (1). All members of the teaching staff in the Chemical Department.

COURSES FOR GRADUATES

Graduate students whose major subject is in some other department than chemistry, before taking graduate work for credit in this department must have had the equivalent of 15 University credits in chemistry and the work covered must have included satisfactory work in general chemistry and in qualitative and quantitative analysis. Such students are advised to take Chemistry 102, 5b, 5c, or 14. Courses of a more special nature will not, as a rule, be accepted for graduate work unless preceded by one of the above courses.

Graduate students who are candidates for an advanced degree in chemistry must have had the equivalent of 30 University hours in chemistry and this must include satisfactory courses in general chemistry, qualitative and quantitative analysis, physical chemistry, and organic chemistry. Before receiving the degree of Doctor of Philosophy such students will be expected to complete work equivalent to Courses 102, 14, 6a, 6b, 10a, 65, 69 and 11.

101. History and Theories of Chemistry.—A discussion of the historical development of the science of chemistry. *I;* (2). Dr. Smith.

102. Advanced Physical Chemistry.—A course of lectures and recitations on special topics for those students of chemistry and physics who desire more extended work in addition to Course 31. Knowledge of differential calculus is desirable. It is recommended that this course be supplemented by at least three hours of laboratory work. *I, II;* (2, 5). Assistant Professor Lincoln.

103. Advanced Inorganic Chemistry.—A systematic presentation of descriptive inorganic Chemistry, including the rarer elements and based on the periodic system. *I;* (2, 5). Dr. Balke.

104. Advanced Organic Chemistry.—Special chapters. This course is designed for advanced and graduate students who may wish to specialize later in organic chemistry or its industrial applications. The course will consist of two lectures or conferences a week in which a detailed study of organic compounds of technical and physiological importance will be made, including artificial dyes and other coal tar products, essential oils, flavors and perfumes, substances of medicinal value, and various products of plant and animal chemistry. May be taken with or without 9b, or 21. *I;* (2). Assistant Professor Curtiss.

Prerequisite: Chemistry 9 or 14.

105. Physiological Chemistry.—This course is designed especially for students desiring a fundamental knowledge of the principles of physiological chemistry. It will consist of lectures, demonstrations, conferences, and assigned reading. The course will include a study of the fluids and tissues of the animal body, and the food stuffs which go to nourish the organism, together with a detailed consideration of the processes of digestion, secretion, excretion, putrefaction, metabolism, etc. The course is open to graduates or undergraduates. *II;* (3). Professor Hawk.

Prerequisite: Two years' work in chemistry and one year's work in physiology.

106. Chemistry of Flesh.—A course consisting mainly of laboratory work, in which students may specialize upon any of the following subjects: Chemistry of the cooking of meats; losses involved in the cooking of meats; digestibility of meats; comparative study of the methods for determining the nitrogenous constituents of meats; separation, purification, and estimation of the nitrogenous constituents of meats. *I or II;* (5, 15). Professor Grindley.

Prerequisite: Two years' work in chemistry.

107. Calorimetry of Fuels.—An advanced course in the study of methods for determining the heat values of solid, liquid and gaseous fuels. *I, II;* (1-3). Professor Parr.

108. Water Supplies.—A study of the sources of contamination of water supplies and the purification of water for potable or technical use. *I, II;* (5). Professor Bartow.

III. THESIS WORK.—A thesis will usually be required of students taking the Master's degree and will always be required of students taking the degree of Doctor of Philosophy. As an illustration of the character of the work which may be done for theses the following list of investigations now in progress in the department is given.

PHYSICAL CHEMISTRY.—Professor NOYES, Change of weight in a chemical reaction. Assistant Professor LINCOLN, Vapor pressure of solutions. Electrolytic corrosion of brasses. Dr. SMITH, Chemical equilibrium between amalgams and solutions.

INORGANIC CHEMISTRY.—Dr. BALKE, New compounds of tungsten. Dr. HOLMES, Interaction of hydrochloric acid and manganese dioxide. Dr. SMITH, Reversible metallic displacements in aqueous solutions.

ANALYTICAL CHEMISTRY.—Dr. ISHAM, Determination of carbon and sulphur in iron and steel.

ORGANIC CHEMISTRY.—Professor NOYES, Molecular rearrangements in derivatives of camphoric acid. Assistant Professor CURTISS, Reaction of alcohols on mesoxalic esters. Derivatives of malonic ester containing nitrogen.

SANITARY CHEMISTRY.—Professor BARTOW, Organic matter in river and deep well water. Standards of purity for waters of Illinois. Efficiency of filtration of waters.

PHYSIOLOGICAL CHEMISTRY.—Professor Grindley, The Chemistry of flesh. Improved methods for the analysis of animal substances. A study of the excretion of nitrogen in the form of nitrates. A study of chlorine metabolism as influenced by variations in the diet. A study of the influence of heat upon the common household fats. The occurrence and distribution of nitrates in foods. Professor HAWK, a study of the excretion of the various forms of nitrogen as influenced by the diet. A study of the relation existing between urea and the total nitrogen content of the urine as influenced by variations in diet. On the uric acid excretion of normal man.

INDUSTRIAL CHEMISTRY.—Professor PARR, Weathering of coal. Changes in coal on heating to moderate temperatures. Formation of calcium silicates at low temperatures. Mixtures of asphalt for technical purposes. Professor BARTOW, Softening of Water.

PHYSICS

COURSES FOR UNDERGRADUATES ONLY

1. General Physics.—Lectures with class-room demonstrations, recitations, and written exercises. This course is taken regularly by sophomores in engineering, mathematics, physics and chemistry. The laboratory course, Physics 3, is to be taken at the same time. *Two lectures and one quiz weekly. I;* (3). *II;* (2). Professor Carman, Assistant Professor Watson, Mr. Stempel, Mr. Hellmann, Mr. Stifler, Mr. Stuhlmann.

Prerequisite: Mathematics 3 or 4.

3. Physical Measurements.—Laboratory experiments running parallel with Physics 1; *two two-hour periods each week;* during the first six weeks there will be quizzes in connection with Physics 1. *I, II;* (2). Assistant Professor Watson, Mr. Stempel, Mr. Hellman, Mr. Stuhlmann, Mr. Kratz.

Prerequisite: See Physics 1.

2a. General Physics.—Lectures with class-room demonstrations and recitations. This course is recommended for students in courses in arts and science. The laboratory course, Physics 2b, is to be taken at the same time. *Two lectures and one quiz weekly. I, II;* (2). Assistant Professor Watson, Mr. Stifler.

Prerequisite: Mathematics 3 or 4 (or may be taken at same time).

2b. Introductory Laboratory Physics.—A course of physical measurements to supplement Physics 2a. *Two two-hour laboratory periods weekly. I, II;* (2). Assistant Professor Watson, Mr. Stifler.

Prerequisite: See Physics 2a.

INTERMEDIATE COURSES

These courses are second-year physics courses, following General Physics 1 and 3, or 2a and 2b.

14. Properties of Matter.—Text-books, *Poynting and Thomson's Properties of Matter; Stewart and Gee's Practical Physics, Vol. I.* Two afternoons in the laboratory, with recitations, assigned reading, and reports. *I, II;* (3). Professor Carman, Assistant Professor Knipp.

Prerequisite: Physics 1 and 3, or 2a and 2b.

15. Electricity and Magnetism.—A laboratory course with lectures, assigned reading, and reports. *I, II;* (2). Mr. Williams.

Prerequisite: Physics 1 and 3, or 2a and 2b.

16a. Heat.—Lectures and recitations on fundamental heat phenomena and elements of the mechanical theory of heat. Laboratory experiments in thermometry, calorimetry, vapor pressures, expansion, and conduction and radiation of heat, mechanical equivalent of heat, etc. Two lectures (or recitations) and two three-hour periods a week. *I or II;* (4). Assistant Professor Watson.

Prerequisite: Physics 1 and 3, or 2a and 2b.

16b. High Temperature Measurements.—Lectures and demonstrations on the theory and the practice of measuring high temperature by electrical, optical and other methods. *II;* (3). Given in 1907-08 by Dr. J. K. Clement.

Prerequisite: Physics 16a, and either Physics 1 and 3, or 2a and 2b.

17. Light.—Recitations and laboratory exercises. Two recitations and one laboratory period. The text-book is *Edser's Light. II;* (3). Professor Carman.

Prerequisite: Physics 1 and 3, or 2a and 2b.

18. Teacher's Course.—Practical work for students preparing to teach physics. The course includes (a) discussion of class-room text-books, laboratory manuals, apparatus ordering, and methods of conducting work in physics; (b) the working out in detail of a laboratory course suitable for a high school. The student will perform some of the experiments to be given in this proposed course, and will also do manipulative work with glass and apparatus when necessary. *I or II;* (2). Professor Carman, Assistant Professor Watson.

Prerequisite: Physics 1 and 3, or 2a and 2b.

COURSES FOR GRADUATES AND UNDERGRADUATES

Courses open to both undergraduates and graduates are generally arranged with additions for graduate credit.

4. Electrical and Magnetic Measurements.—Laboratory exercises with discussions and recitations. The course extends throughout the year. It is taken by junior students in electrical engineering and is recommended to others wishing an exact course in electrical and magnetic measurements. *Two three-hour periods weekly. I, II;* (2). Assistant Professor Knipp, Mr. Williams.

Prerequisite: Physics 1 and 3, or 2a and 2b; Mathematics 7 and 9.

4a. Introduction to Theoretical Electricity.—A course of lectures and recitations discussing the phenomena with elementary calculus methods and with occasional lecture-room demonstrations. Forster & Porter's *Electricity and Magnetism* is used as a text and reference book. *I, II;* (2). Assistant Professor Knipp.

Prerequisite: Same as 4.

20a. Light.—Lectures and recitations with class demonstrations of special phenomena discussed in the text. Wood's *Light* has been used as a text and reference book. *II;* (3). (Given in 1906-07, omitted in 1907-08.) Professor Carman, Assistant Professor Knipp.

Prerequisite: Physics 1 and 3 and Mathematics 7 or 8a.

20b. Light.—A laboratory course in advanced light measurements. *I, II;* (2 to 5). (Given in 1906-07, omitted in 1907-08). Professor Carman, Assistant Professor Knipp.

21. Recent Advances in Physical Science.—Lectures illustrated by experiments on the more recent developments of physics. This course is primarily for students whose major is physics; it is however, open to advanced science and engineering students interested in physics. *I, II;* (1). Professor Carman, Assistant Professors Knipp, Watson.

22. Thermodynamics.—Lectures and collateral reading on the principles and methods of thermodynamics. This course includes a discussion of thermometry, calorimetry, the laws of the conservation and transformation of energy, and the application of these laws to typical physical and chemical changes. Text-book: *Bryan's Thermodynamics. II;* (2). Associate Professor Goodenough.

Prerequisite: Physics 1 and 3, or 2a and 2b; Chemistry 1; Mathematics 8a, or 8b, or 7 and 9.

23. Sound.—Lectures, recitations, and experiments on phenomena of sound. The course will include a consideration of the origin, propogation, velocity and interference of sound, the vibration of strings, rods and gas columns, and the physical theory of music and speech. *II;* (2). Assistant Professor Watson.

Prerequisite: Physics 1 and 3, or 2a and 2b.

24. Conduction of Electricity in Gases and Radio-Activity.—A critical study both theoretical and experimental of recent investigations in this line. Text-books: *J. J. Thomson's Discharge of Electricity through Gases,* and *Rutherford's Radio-Activity. I, II;* (3). Assistant Professor Knipp.

Prerequisite: Physics 1 and 3, or 2a and 2b.

30a. Electricity and Magnetism.—Mathematical theory. *I or II;* (3). (Given in first semester of 1907-08.) Assistant Professor Knipp.

Prerequisite: Physics 20a, 4a; Mathematics 7 and 9, or 8a.

30b. Electricity and Magnetism.—A course of electrical measurements, including experimental work in some of the more recent developments, such as electric waves and their application to wireless telegraphy, electrical discharge in gases, etc. *I or II;* (2, 3 or 5). Assistant Professor Knipp.

Prerequisite: Physics 4a, 30a desired.

31. Investigation of Special Problems.—An advanced course in the laboratory or in design and calculation. A problem is chosen and worked out with the advice and direction of the instructor. *I, II;* (2, 3 or 5). Professor Carman, Assistant Professors Knipp, Watson.

Prerequisite: One semester of Physics in advance of Physics 1 and 2.

32. Mathematical Physics.—Lectures and recitations on special topics in theoretical physics. *I, II;* (3). [Not given in 1907-08.] Professor Carman.

Prerequisite: Physics 19.

33. Seminary and Thesis.—*I, II;* (3 or 5). Professor Carman, Assistant Professors Knipp, Watson.

GEOLOGY

1. General Geology: Dynamic and Structural.—(a) Lithology, three weeks. Lectures and laboratory work on the classification and identification of the common rocks. (b) Physiographic and dynamic geology. Lectures and laboratory work. *I;* (5). Dr. Bagg.

Prerequisite: Chemistry 1.

1a. General Geology: Historical.—(a) Three weeks, lectures and laboratory work on the classification and identification of the commonest fossils. (b) Historical geology, a discussion of the history of the earth with special reference to the development of the continent of North America. In the laboratory the student is required to familiarize himself with selected groups of paleozoic fossils, abundant illustrations of which are placed in his hands. *II;* (5). Assistant Professor Savage, Dr. Bagg.

Prerequisite: Geology 1 or 10.

2. Economic Geology.—A study of the manner of occurrence of minerals and rocks of economic importance, with special reference to those found in North America. Lectures and laboratory work. *I;* (5). Associate Professor Bayley.

Prerequisite: Geology 1, 5.

3. General Geology, Minor Course.—This course is an abridgment of Courses 5, 1, 2, and 8. One hour each day is devoted to laboratory work, and this time is about equally divided between the study of minerals, rocks, and fossils.

The instruction is by text and lectures, using *Scott's Introduction to Geology* as the basis for the class-room work and a specially prepared guide for the laboratory. *II;* 1 and 2; (5). Dr. Bagg.

5. Mineralogy.—Intended as an introduction to the work in petrography and geology, and in addition to furnish a general working knowledge of the most common ores and of minerals of scientific importance. Lectures and laboratory exercises upon the elements of crystallography and upon such characteristics of about 125 of the most important minerals as will enable the student to become thoroughly familiar with them. The laboratory work includes a short course in blow-pipe analysis. *I;* (5). Associate Professor Bayley, Mr. Ellis.

Prerequisite: Chemistry 1.

5a. Mineralogy.—Briefer course. Deals with the same subjects in the same manner as the longer course 1. It requires of the student a knowledge of only the simplest principles of crystallography and an acquaintance with about 90 minerals, limited largely to the ores. For chemists. *I;* (3). Associate Professor Bayley, Mr. Ellis.

Prerequisite: Chemistry 1.

6. Physical and Optical Mineralogy.—A direct introduction to the course in Petrography. The physical and optical properties of minerals are discussed in lectures and studied in the laboratory, with special reference to their relations with respect to symmetry. The larger portion of the work is devoted to the study of polarized light and its practical use in identifying the rock forming minerals. *II;* (5). Associate Professor Bayley.

Prerequisite: Geology 5.

7. Petrography.—The principles learned in course 6 are applied to the study of igneous rocks. Lectures describe the different types of these rocks and discuss their origin and classification. In the

laboratory a representative suite of specimens is studied in the hand specimen and thin section. *I;* (3). Associate Professor BAYLEY.

Prerequisite: Geology 6.

7a. PETROGRAPHY.—Continuation of Course 7, in which schists and sedimentary rocks become the objects of study. Incidentally some of the simpler processes of metamorphosis are discussed. *II;* (3). Associate Professor BAYLEY.

Prerequisite: Geology 7.

8. (See Physical Geography.)

9. PALEONTOLOGY.—This course considers the history of organisms as revealed by the order and sequence of fossils occurring in the successive series of rocks. It deals with the laws concerning the relation of organisms to their environment; of fossils to the formation in which they are found; of physical changes to organic changes, or paleontology to stratigraphy. The interpretation of faunas and faunules, the migration of faunas, and the succession of fossil groups are discussed. The economic and scientific uses of fossils are explained, and the phylogeny of certain groups of organisms are traced using the fossils in the University collections. For advanced students. *II;* (5). Assistant Professor SAVAGE, Dr. BAGG.

Prerequisite: Geology 1 or 10, 1a and 16.

10. PHYSIOGRAPHIC GEOLOGY.—A course in General Geology in which special stress is laid on the origin, modification and destruction of geographic forms, and on the relation of these forms to underlying geologic structure. *I;* (5). Professor ROLFE, Mr. KNIRK.

11. SHORT COURSE.—A course of sixteen lectures upon salient points in geology for freshmen in agriculture only. *I;* (1). Professor ROLFE.

12. AGRICULTURAL GEOLOGY.—A strictly technical course designed to meet the wants of the agriculturist. *II;* (5). Professor ROLFE, Dr. BAGG. (Open to students in agriculture only).

13. ENGINEERING GEOLOGY.—This is a strictly technical course dealing with those points which are especially useful to engineers. *II;* (5). Associate Professor BAYLEY, Mr. KNIRK, Mr. ELLIS. (Open to engineers only.)

14. METEOROLOGY.—This course is the same as the first half of 8, and is taken in the same class. It is offered especially to students in agriculture. *I;* (3). Professor ROLFE, Mr. KNIRK.

16. Stratigraphy.—The principles of classification and nomenclature of rock formations, and the methods and criteria for correlation, employed in practical field work. The stratigraphy of the rocks of the Mississippi valley are studied, and the diagnostic fossils are described by the student in the laboratory in such a manner that he will be able to recognize the characteristic species, and refer fossil bearing rocks to their proper place in the geologic column. Geological maps are studied and the methods of making such maps explained. Practical field study and the mapping of the geology of some district is done by each student. *II;* (5). Assistant Professor Savage.

Prerequisite: Geology 1, 1a.

COURSES FOR GRADUATES

Courses 2, 6, 7, 7a, 16, and 9 are open to graduate students who have fulfilled the requirements preliminary to these courses. In addition special courses in field work and in Economic Geology will be offered as the demands for such courses appear to require.

PHYSICAL GEOGRAPHY

Physical Geography (Geology 8).—A discussion of the general principles of meteorology, oceanography, and climatology, followed by a study of the physical geography of North America and Europe, with reference to its influence on man and his welfare.

It is assumed that the student has a good understanding of political geography, and of the principles of land development, etc., as set forth in such works as *Davis's, Gibert and Brigham's, or Salisbury's Physical Geography. I, II;* (3). Professor Rolfe, Mr. Knirk.

(See also Geology 10.)

CERAMICS

1. Classification and Physical Testing of Clays.—An elementary course designed to acquaint the student early with the varieties of clays and the properties which adapt each to its special use in ceramic industry. *I;* (3). Mr. Stull.

2. Winning and Preparation of Clays.—A study of the commercial methods of winning and preparing ceramic materials for the market and factory. *II;* (3). Mr. Stull.

3. Physical Calculations.—Problems and calculations relating to problems in hygrometry and heat incident to the processes of drying and burning. *II;* (2). Professor Bleininger, Mr. Stull.

4. Drying and Burning.—A detailed consideration of the methods of drying and burning clay wares, and the physical laws underlying these operations. *II;* (4). Professor Bleininger, Mr. Hope.

5. Body Making.—Lectures on the manufacture and body composition of various ceramic wares. Laboratory exercises are given to demonstrate the physical and pyro-chemical effect of variations in processes of manufacture and in composition; also to illustrate the peculiar properties and composition of the various types of bodies. *I;* (6). Professor Bleininger, Mr. Hope.

6. Glazes.—Lectures on the production of glazes and enamels, their classification and the properties and defects common to each class, with laboratory exercises to demonstrate the fundamental characteristics of each class of glaze; the effect of variation in composition on its physical properties; and the mode of application. *I;* (6). Professor Bleininger, Mr. Hope.

7. Ceramic Stoichiometry.—Calculations involved in the manufacture of bodies and glazes, using *Jackson's Ceramic Calculations* and the *American Ceramic Society Manual* as a basis. *I;* (2). Mr. Stull.

8. Colors of Bodies and Glazes.—Methods of opacifying and coloring bodies and glazes, with detailed consideration of the methods of decorating clay wares. *II;* (3). Professor Bleininger, Mr. Hope.

9. Ceramic Construction.—Original plans, specifications, and estimates of some ceramic construction will be required. *II;* (3). Professor Bleininger, Mr. Stull.

10. Cement.—A course of lectures on hydraulic mortars of all kinds, giving special consideration to composition, reactions, and methods of manufacturing, mining of raw material, and testing of the finished product. *I;* (4). Professor Bleininger.

11. Thesis.—*I, II;* (8 to 10). Professor Bleininger.

METEOROLOGY

See Physical Geography and Geology 14.

MINERALOGY

See Geology 5, 5a, 6, 7, 7a.

PALEONTOLOGY

See Geology 1, 9.

BIOLOGICAL SCIENCES

BOTANY

11. Introductory Course.—Elementary work chiefly upon flowering plants, including their general structure and activities. The laboratory work is supplemented by field observations and by the study of text. The course is planned to offer general students an opportunity of gaining elementary knowledge of the vegetable kingdom. *I;* (5). Assistant Professor Hottes, Miss De Motte, Mr. Hummel, Miss Parsons, Miss Woodbridge.

1. Histology and Physiology.—General vegetable histology and physiology, or a study of the cells and tissues of plants and their courses of development into structures and organs; and studies in the general activities of plants. *II;* (5). Assistant Professor Hottes, Miss De Motte, Mr. Hummel, Miss Parsons, Miss Woodbridge.

Prerequisite: Entrance credit in botany, or Botany 11; Chemistry 1, or Physics 2a.

2. Morphology.—The general morphology and taxonomy of plants presented from the standpoint of evolution, including a study of selected types. Occasional field excursions. *I;* (5). Dr. Gleason.

Prerequisite: Entrance credit in botany, or Botany 11.

In Courses 1 and 2 taken together, either in the order of the numbers or the reverse, there is offered an introduction to the science for those who desire to continue the study, and as a unified course for general students. Each semester's work is separately credited.

3. Cytology and Physiology.—Lectures, laboratory work, and assigned reading. The course extends through the year, but the work of each semester is credited separately under the designations of 3a and 3b. The first semester is devoted mainly to cytology and histology, with special attention to technique; during the second semester experimental physiology receives chief attention. *I, II;* (5). Assistant Professor Hottes.

Prerequisite: Botany 1.

14. Lectures of Course 3.—The plant cell: the physiology of its various constituents and the parts these play in the process of fertilization; various theories of heredity and species formation. *I;* (2). Assistant Professor Hottes.

4. Taxonomy of Spermatophytes.—Identification and classification of flowering plants. Chief attention, in the laboratory, may be

given to weeds, grasses, etc., of economic importance; for this, arrangements should be made during the preceding semester. Lectures, assigned reading, and laboratory work; field excursions until the close of the season. *I;* (5). Dr. GLEASON.

Prerequisite: Entrance credit in botany, or Botany 11.

5. BACTERIOLOGY.—An introduction to the knowledge of the subject and instruction in methods. *II;* (5). Professor BURRILL, Mr. BRISCOE.

Prerequisite: Chemistry 1, and at least one semester's work in botany or zoology, in the University.

6. BACTERIOLOGY FOR SANITARY ENGINEERS.—Bacteriological methods and their application in water analysis and sewerage. *I, (last seven weeks);* (2). Professor BURRILL, Mr. BRISCOE.

7. PLANT PATHOLOGY.—Diseases and injuries of plants. Mostly laboratory, herbarium, and field work, and assigned reading. *I;* (3). Professor BURRILL.

Prerequisite: Botany 1, 2.

8. ECONOMIC BOTANY.—Useful plants and plant products. Lectures and assigned reading. *I;* (2). Professor BURRILL.

Prerequisite: Entrance credit in botany and one semester of University work in botany.

9. INVESTIGATIONS AND THESIS.—Research work upon selected subjects. Special arrangements for this work should be made during the preceding year. *I, II;* (5). Professor BURRILL, Assistant Professor HOTTES, Dr. GLEASON.

Prerequisite: At least two years' work in botany in this University or equivalent.

10. SEMINARY.—Reports and discussions upon assigned topics and results of research work. For advanced and graduate students. *I, II;* (1). Professor BURRILL.

12. LECTURES AND DEMONSTRATIONS UPON BACTERIA.—An elementary course in which is presented the facts concerning the existence, size, form, life processes, and effects of bacteria and allied organisms, with special attention to those of most common utility or detriment to man. *I, second half;* (1). Professor BURRILL.

15. TEACHERS' SEMINARY.—A study of the teaching of botany in secondary schools; methods of instruction; laboratory equipment and material helps, pertinent literature; the teacher's prepara-

tion and duties. *II;* (1). Professor Burrill, Assistant Professor Hottes.

Prerequisite: At least one year of botanical work in the University or equivalent.

16. Taxonomy of Special Groups.—Mostly laboratory and herbarium work, and assigned reading. The course extends through the year, but the work of each semester is credited separately under the designations of 16a and 16b. *I, II;* (5). Professor Burrill, Dr. Gleason.

Prerequisite: Botany 2.

17. Ecology.—Ecological factors which control the distribution of plants, principles of plant association, and characteristics of some typical plant formations. Lectures and, after the season opens, field work on Saturday forenoons. *II;* (3). Dr. Gleason.

Prerequisite: Entrance credit in botany or Botany 11.

COURSES FOR GRADUATES

After at least one year of biological work graduates may elect any of the courses 3, 5, 7, 9, or 16, for minor credit, and of courses 3, 7, 9 and 16, with assigned additions for major credit towards an advanced degree. The following are open only to graduates of liberal botanical training.

101. Biological Botany.—The preparation and study of material by histological and embryological methods, and experiment work with living vegetation in the laboratory and field in working out special problems in the development, physiology, and pathology of plants.

102. Systematic Botany.—Critical and comparative studies of species included in chosen groups of spermatophytes or sporophytes, or from selected geographic areas, in connection with considerations of genealogic development, geographic distribution, and interrelated association.

103. Bacteriology.—Investigations upon morphologic and physiologic variation due to treatment; systematic studies upon the number, validity, and relationship of species; researches upon special kinds of bacteria and upon methods of favoring or combating their activities.

ZOOLOGY

1. General Zoology.—A composite, elementary course in both vertebrate and invertebrate zoology, including a study of the classi-

fication, morphology, physiology, and natural history of a series of animals selected with special reference to the zoology of Illinois. Includes observational and experimental studies in field and in laboratory, and lectures on general and theoretical zoology. This course is offered primarily to general science students and to those preparing to teach. For the latter group of students there are lectures, special readings, quizzes and discussions on the special pedagogy of zoology. *I, II;* (5). Dr. McClellan.

Prerequisite: An entrance credit in chemistry or Chemistry 1. The chemistry may be taken parallel with the first semester of this course.

10. Introductory Zoology.—This is a laboratory and lecture course, mainly on the morphology, physiology, and ecology of type forms, and on the more important features of cytology and development. The work leads to an acquaintance with the simpler generalizations of zoological theory, and is a suitable preparation for course 2. *Section A, for other than medical students. I, or II;* (5). *Section B, for medical students. I;* (5). Dr. Peters, Dr. Carpenter.

2. Vertebrate Zoology and Comparative Anatomy.—In the laboratory work of this course principal attention is given to the anatomy of Necturus and to anatomical and systematic studies of fishes, birds and mammals. The course contains lectures on the general theory of evolution with more attention to the evidences furnished by the anatomy and embryology of the vertebrates and especially of man. The ordinary technique of section cutting and staining will be included in the course. *II;* (5). Dr. Carpenter.

Prerequisite: An entrance credit in chemistry or Chemistry 1; Zoology 10.

3. Vertebrate Embryology.—This course begins with a study of the sex cells, fertilization, and the early stages in the development of the egg. The formation of the organs of the vertebrate body and of the fetal membranes is then considered in detail, with lectures on the development of the chick, and assigned reading in a text-book of human embryology. The laboratory work includes the preparation of embryological material and the study of serial sections of chick and pig embryos. *I, II;* (3). Dr. McClellan.

Prerequisite: Zoology 1 or 2.

15. Variation and Heredity.—A course of lectures and reference reading designed to give a general survey of the results ob-

tained by the application of modern statistical methods in the study of variation and heredity. A knowledge of the methods is acquired from lectures and from exercises in handling data gathered from various sources. For accompanying laboratory work see 15a. *I;* (2). Associate Professor SMITH.

Prerequisite: Zoology 10 or 1.

15a. STATISTICAL DATA.—Laboratory work involving the collection of data suitable for a study of the variations and correlations of structure in some suitable organism may be elected in connection with Course 15. The extensive collections of insects, fishes and plankton material in the possession of the State Laboratory of Natural History are available for the purpose of this course. *II;* (3). Associate Professor SMITH.

Prerequisite: Zoology 10 or 1.

16. CHEMICAL ZOOLOGY.—This course deals with those chemical conditions of protoplasm which are more or less common to all living matter. Biological processes studied from the point of view of the chemical principles which underly them. The first part of the course treats of the relation between the cell and a solution as its medium. The latter part is given to ferments and to the treatment of enzymes according to the general chemical principles applicable to catalytic processes. Lectures, laboratory and assigned reading. Those who are prepared may pursue a problem leading to a thesis but for others the work is intended to be sufficiently elementary for beginners. For prerequisites consult the instructor. Either semester's work may be taken separately. *I, II;* (3 to 5). Dr. PETERS.

17a. FIELD ZOOLOGY.—A course whose main object it is to gain as comprehensive a knowledge as practicable of the animal life of a restricted locality. Collection, preservation, and identification of various kinds of animals, together with observations of the habits, life histories, and relations to environment of selected forms constitute the major part of the work. The work is so planned as to make it a desirable course for prospective teachers of zoology. *I;* (3). Associate Professor SMITH.

Prerequisite: Zoology 10 or 1.

17b. FIELD ORNITHOLOGY.—A course especially designed to give an acquaintance with the birds of the vicinity. Identification, food relations, seasonal distribution and migration activities receive chief

attention. Students are expected to provide themselves with opera or field-glasses. *II;* (2). Associate Professor SMITH.

18. MICROSCOPIC ORGANISMS.—This course has for its object-matter the minute aquatic life of fresh water with special reference to those organisms which have a relation to sanitary problems. The general chemical and physical conditions which govern the life of organisms in an aquatic environment are considered and the methods practiced and proposed for the control of the biological content of the fresh waters are described and, so far as possible, illustrated by experiment. *I;* (5). Dr. PETERS.

Prerequisite: Zoology 1 or 10.

8. THESIS INVESTIGATION.—Candidates for graduation who select a zoological subject as a thesis are required to spend three hours a day during their senior year in making a detailed investigation of the selected subject. While this work is done under the general supervision of an instructor, it is in its methods and responsibilities essentially original work. *I, II;* (5). Professor FORBES, Associate Professor SMITH, Dr. PETERS, Dr. CARPENTER.

Prerequisite: Two years in zoological courses.

COURSES FOR GRADUATES

Zoology 2[1], 3, 4, 8, 15, 16, 17, and 18 may be taken for undergraduate or graduate credit; and the following for graduate credit only:

101. EMBRYOLOGY.—A special topic in the field of vertebrate embryology is selected for investigation. The course is intended to familiarize the student with the research methods of embryology, and will involve practice in the technique of the microscope, the preparation of drawings, and the systematic study of the literature relating to the subject. The results of the investigation are to be presented in the form of a thesis. Zoology 3 or its equivalent and a reading knowledge of German are prerequisites to the course.

102. FRESH-WATER ICHTHYOLOGY.—The large collection of fishes belonging to the University and the State Laboratory of Natural History, together with the ichthyological library of the latter, are open to students who wish to become acquainted with the ichthyology of a fresh-water situation. Both qualitative and quantitative studies

[1]Open as a graduate course only to those who have had Zoology 1 or its equivalent.

of the fishes of a selected body of water are made, and papers written presenting the results of personal studies in this field.

103. Fresh-water and Terrestrial Annelids.—This is an application of the methods of the zoological laboratory to the study of the annelid worms of the land and the inland waters of North America. The description of genera and species, practice in drawing for publication, and experimental work on the physiology and ecology of selected forms may be included.

104. Physiological Zoology.—In this course the student is taught the principles and practice involved in the application of physical and chemical methods to physiological experimentation upon animals. Selected portions of the literature of experimental and physiological zoology are read and discussed. The laboratory work consists of exercises that illustrate advanced methods, or, of a problem using such methods.

ENTOMOLOGY

2. General Entomology.—This course and Entomology 3 form a year's connected major work in entomology, covering substantially the whole field. The present course is devoted mainly to field entomology in the fall and later to the morphological and physiological aspects of the subject. Beginning with the collection and preservation of specimens and the making of field observations, it is continued by laboratory studies of typical insects, made with special reference to the recognition of adaptive structures, and experimental work intended to determine their exact utilities. *I;* (5). Dr. Folsom.

Prerequisite: Zoology 10 or 1, or Entomology 4.

3. General Entomology.—To be taken either with or without the preceding course. The classification and determination of insects, the study of life histories in the insectary and by field observation, and the collection of information with respect to the ecological relations of insects, are the principal objects of this course. *II;* (5). Dr. Folsom.

Prerequisite: Zoology 10 or 1.

4. Introduction to Economic Entomology.—Intended especially for students in the College of Agriculture. A lecture, field, and laboratory course acquainting the student with the general principles and essential elements of economic entomology. This course

may be followed by one or more special courses corresponding to the subdivisions of the departments of agriculture and horticulture, and to be taught in connection with them. *I, first half;* (2½). Dr. Folsom.

5. Advanced Entomology.—Under this head students desiring advanced work in entomology, especially as a preparation for thesis work in this subject, are individually provided for on consultation with the instructors. The course may be made to cover one or two semesters and to earn a three-hour or a five-hour credit in each. At least a three-hour course for one semester will be required as a preparation for entomological thesis work. *I, II;* (3 to 5). Professor Forbes or Dr. Folsom.

Prerequisite: Entomology 2, 3, or 4.

6. Thesis Investigation.—Students specializing in entomology select a thesis subject, preferably during the junior year. They are expected to give three hours a day to investigation upon it, under the supervision of an instructor, during their senior year. *I, II;* (5). Professor Forbes, Dr. Folsom.

Prerequisite: At least a three-hour course in Entomology 5.

7. Systematic Entomology.—This course, while primarily entomological, is designed to be of general use to students of biology. The lectures include a historical and critical survey of the systems of classification; a discussion of the aims and methods of classification; the nature of species, genera, and other groups, and the rules of nomenclature; the preparation of taxonomic articles, involving the study of bibliography, synonymy, analytical keys, etc. These subjects receive practical treatment in the laboratory, and to qualified students the unworked material of the State Laboratory of Natural History is available for study. *I, II;* (3). Dr. Folsom.

Prerequisite: A semester course in zoology or entomology.

COURSES FOR GRADUATES

Entomology 2, 3, 5, 6, and 7, may be taken as graduate courses.

PHYSIOLOGY

1. Major Course.—For medical students with a broad foundation in physics, chemistry, zoology and embryology. It embraces three lines of work, viz., histology, physiological chemistry, and physiology proper. This course entitles the student to full medical credit in histology, but extra work in physiology (2 or 5) must be

taken to obtain such credit in physiology or in physiological chemistry. (See circular of Colleges of Arts and Science for more detailed information). *I, II;* (5). Professor KEMP, Doctor STANLEY, Mr. LANE.

Prerequisite: Physics 2a; Chemistry 1, 2, 3, 5a, 9, 9c; Zoology 2, 3.

2. ADVANCED COURSE.—For students who wish to get as thorough a training as possible for the study of medicine. It is supplementary to Physiology 1, and may be taken the year after Physiology 1 is completed, or it may be taken parallel with Physiology 1. *I, II;* (5). Professor KEMP, Dr. STANLEY.

Prerequisite: Same as for Physiology 1.

3. UNDERGRADUATE THESIS.—This course is offered to undergraduates who wish to take a thesis-course.

4. MINOR COURSE.—Especial emphasis is laid upon those facts that serve as a basis for practical hygiene, and for helping students to teach physiology in high schools. Lecture demonstrations, recitations, and laboratory work. Students who have had chemistry and zoology in high schools only, may be admitted to the course at the option of the instructor. *II;* (5). Professor KEMP, Dr. STANLEY.

Prerequisite: Chemistry 1; Zoology 10 or 1.

5. SPECIAL PHYSIOLOGY.—This course is given to meet an emergency, which sometimes arises, where a student wishes to take up a special line of work not specified in one of the other courses, and not involving the preparation of a thesis. At the discretion of the head of the department students may register for such work. Arrange details with the instructor.

6. HYGIENE.—This course must be taken by young women who take physical training for credit. The course deals with those practical hygienic questions of everyday life that are wholly or in large part under the control of each individual. *I;* (1). Professor KEMP, Mrs. LINCOLN, Dr. STANLEY.

7. PHYSIOLOGICAL CHEMISTRY.—For students who can not fulfil all the requirements, for Physiology 1 and 2. It consists of lectures given in Physiology 1 and laboratory work given in Physiology 2, and includes urine-analysis. Students taking this course must be prepared to be present daily, the fourth hour, with Physiology 1. When this class is engaged on non-chemical work the students in 7 will be excused. The laboratory hours must be in the afternoon

while the class in Physiology 2 is covering the same ground. *I;* (7) Professor KEMP, Dr. STANLEY.

Prerequisite: Chemistry 1, 2, 3, 5a, 9, 9c.

8. HISTOLOGY.—This is the histological part of Physiology 1. It may be taken by those who can not meet the requirements for that course. Students who register in 8 must be present daily with Physiology 1 at the third hour, and, when demonstrations are given which last for two hours, they will be expected to remain during the fourth hour also. When Physiology 1 is engaged on other work, during the third hour, the students in 8 will be excused. *I, II;* (2½). Professor KEMP, Mr. LANE.

Prerequisite: Chemistry 1; Zoology 2, 3.

9. TEACHERS' SPECIAL LABORATORY COURSE.—Special work with simple apparatus to train the student in methods of demonstration for prospective high-school teachers. This course may be taken after Physiology 4, and is recommended for those who wish to work a year in physiology without having the requirements to enter the class in Physiology 1. It may also be taken for less than five credits. Work to be arranged after consultation with instructor.

COURSES FOR GRADUATES

103. ORIGINAL RESEARCH.—Every facility and encouragement, so far as the resources of the laboratory and library permit, are offered to those prepared to avail themselves of these, for researches as part of the work for the master's or the doctor's degree, or for carrying on original work for publication. Professor KEMP.

111. PHYSIOLOGICAL JOURNAL CLUB.—This club is composed of the teaching staff of the department, the graduate students, and such undergraduates as are sufficiently advanced to participate. Recent articles of interest in current journals will be reported and discussed. This will give the student practice and confidence in presenting a condensed synopsis of a subject before a meeting. Each student will have to report a paper about once in two months. Time will be arranged, as far as possible, to suit the convenience of members of the club. Professor KEMP.

HOUSEHOLD SCIENCE

The courses of instruction given in the department are planned to meet the needs of two classes of students, viz.: (a) those students who specialize in other lines of work, but desire a knowledge

of the general principles and facts of household science; (b) those students who wish to make a specialty of household science.

1. Principles of the Selection and Preparation of Food.—The nature and uses of food, its chemical composition, and the changes effected by heat, cold, or fermentation. Practical illustrations of the principles of selection are given by marketing expeditions. Some of the processes of the manufacture of food are considered, as well as the combinations of different kinds. *II;* (3). Miss Van Meter, Miss Morrow.

Prerequisite: Entrance credit in physics; Chemistry 1.

2. Home Architecture and Sanitation.—The situation, surroundings, and construction of the house; the hygiene of the home; heating, lighting, ventilation, water supply, and drainage. Lectures on house planning, with exercise in making skeleton plans, and on sanitary plumbing and fixtures and internal drainage. *I;* (2). Professor Bevier, Assistant Professor Case, Mr. Vawter.

3. Elementary Home Decoration.—A continuation of Course 2. Lectures on the evolution of the house and the homes of primitive peoples, the theory of color and its application in home decoration. The evolution of the home, furnishings from a sanitary and artistic standpoint. *II;* (2). Professors Bevier, Ricker.

Prerequisite: Art and Design 1, Architecture 41, and Household Science 2.

4. Food and Nutrition.—An application of the principles of pure science to the problems of food and nutrition. The problems may be physiological, chemical or bacteriological. Each student investigates some particular problem. *I;* (5). Professor Bevier, Assistant Professor Usher.

Prerequisite: Botany 5; Chemistry 1, 2 and 3, 13a, 9 and 9c; five hours in botany or zoology; Household Science 1, 6, 5.

5. Dietetics.—The work in dietetics includes the following topics: the principles of diet; the relation of food to health; influence of age, sex and occupation on diet, the construction of dietaries; dietetic treatment of certain diseases; principles of home nursing. Laboratory practice is given in the course. *II;* (3). Assistant Professor Usher.

Prerequisite: Household Science 1, 6; Physiology 4.

6. Economic Uses of Food.—This course is a continuation of Course 1. Emphasis is put upon the economic side of the food ques-

tion. The uses and applications of preservatives are considered. *I;* (3). Miss Morrow.

Prerequisite: Household Science 1.

7. Textiles.—The development of primitive industries, production of fibers used in textile manufacture. Practice is given in judging cloth and in the application of the principles of selection of color and design in costumes. *I;* (2). Miss Gibbs.

Prerequisite: Plain sewing.

12. Household Art.—A continuation of Course 7. Materials suitable for various uses in home and in clothing; consideration of texture, of quality, of design in relation to form; of color in relation to environment and personality; hygienic properties and cost. *II;* (2). Miss Gibbs.

Prerequisite: Household Science 7; Art and Design 1; Architecture 41.

8. Hygiene and Public Health.—In this course such topics are considered as have a direct practical bearing upon individual and public health. *II;* (1). Professor Bevier.

9. Seminar.—A study of various topics of home economics and individual problems in some one of these topics. *II;* (3).

Open to seniors only.

10. Household Management.—This course deals with the organization of the household; expenditure of income; care of the house and family, including the cleaning of metals, woods, fabrics, and other essentials of a well-ordered home. *I;* (2). Professor Usher.

Open to juniors and seniors.

Prerequisite: Household Science 1, 6, 5; Economics 1.

11. Teachers' Course.—This course is designed for the prospective supervisor of the subject, or teacher in the graded schools. It aims to show the best method of presenting the work, and its correlation with other subjects. Practice is afforded in planning such courses, and some opportunity for presenting them. *II;* (2). Professor Bevier.

Open to seniors.

Prerequisite: Household Science 1, 2, 3, 5, 6, 7, 12, 13.

13. History of Home Economics.—This course aims to make the student intelligent concerning the origin and development of home economics. It includes a study of the work in various types

of institutions, and the planning of courses for these types. *I;* (1). Professor Bevier.

Open to juniors and seniors.

COURSES FOR GRADUATES

101. Home Economics.—A study of the origin and development of home economics, with particular reference to its industrial, educational, and sociological aspects. Professor Bevier.

102. Special Investigation.—Problems in the application of the principles of bacteriology, chemistry, and physiology, to the ordinary processes used in the preparation of food. Professor Bevier.

ENGINEERING

ARCHITECTURE

2. Wood Construction.—Formulæ and data for computing dimensions and strength of columns, beams, girders, etc., of wood or metal, are given and applied in the solution of examples. Attention is given to wood and its uses in construction and decoration, seasoning, shrinkage, defects, and modes of protection from decay. A study is made of the construction and design of wooden floors, walls, ceilings, and roofs, and joinery, doors, windows, bays, inside finish, cornices, wainscoting, stairs, etc. *Kidder's Building Construction and Superintendence, Part Two. I;* (3). Mr. Clark.

Prerequisite: General Engineering Drawing 1, 2; Mathematics 2, 4.

3. Masonry and Metal Construction.—Foundations of stone, brick, concrete, and piles; materials employed in stone masonry, their uses, defects, qualities, and modes of preparation. Kinds of masonry and external finish. Tools for stone cutting and their use. Preparation of working drawings, with application to the arch, vault, and dome. Brick masonry, its materials and bonds, manufacture and refining of cast iron, wrought iron, and steel, with processes of pattern-making, molding, casting, refining, rolling, etc., and standard dimensions or sections. Special properties and value of metal in a structure, the designing of a line of columns in mercantile building, and of beams, girders, and footings, together with the study of joints and connections. *Kidder's Building Construction and Superintendence, Part One. II;* (3). Mr. Clark.

Prerequisite: General Engineering Drawing 1, 2; Mathematics 2, 4.

4. Sanitary Construction.—Recitations and lectures, designs for special problems. Study of plumbing, trap ventilation, removal of wastes, construction of water closets, drains, and systems of water supply; sewage disposal. Water supply and fixtures in dwellings. *Cosgrove's Principles and Practice of Plumbing. Lectures on sewage disposal. I;* (2). Mr. Vawter.

Prerequisite: Physics 2a, 2b; Architecture 2, 3.

5. Graphic Statics and Roofs.—Elements of graphic statics and applications in designing trussed roofs. Forces, equilibrum, reactions, moments, bending moments, and shears on beams; center of gravity, moment of inertia and kern of cross sections. Construction of wooden and metallic roofs, mode of computing loads on roof trusses, obtaining end reactions, drawing strain diagrams, and determining sectional dimensions of members, with the designing of joint connections. *Sondericker's Graphic Statics. II;* (4). Mr. Clark.

Prerequisite: Mathematics 2, 4, 6; Theoretical and Applied Mechanics 4, 5, or 6, 7, 8, 9.

6. History of Architecture.—Continues through the year and is taken with Architecture 7 and 11. Commencing with Egyptian and ending with modern styles a careful study is made of the more important styles, examining historical conditions, local and inherited influences, structural materials and system, ornaments, purposes and designs of the buildings, with the most important typical examples of each style. Especial attention given to ideas useful or suggestive in American work, and to tracing gradual evolution of architectural forms. One quiz and three illustrated lectures a week. Tracings of details, maps, tables and synopses of styles, and lecture notes are required. *Fletcher's History of Architecture, 5th Edit. I, II;* (4). Professor Ricker.

Prerequisite: General Engineering Drawing 1, 2; Architecture 2, 3.

7. Historic Ornament.—A study of the most important details of the Grecian, Roman, Early Christian, Byzantine, Mohammedan, Romanesque, Gothic, and Renaissance styles. Lectures and drawing. *II;* (2). Professor Wells, Mr. Vawter.

Prerequisite: Architecture 2, 3, 8.

8. The Orders of Architecture.—A study of the Five Orders of Architecture, and architectural shades and shadows and of the proportions and details of the Orders by means of lectures, recita-

tions, blackboard sketches from memory, and problems requiring the use of Orders. *Ware's American Vignola; Lectures on Shades and Shadows. II;* (3). Mr. VAWTER.

Prerequisite: General Engineering Drawing 1; Architecture 20.

9. MONTHLY PROBLEMS.—An entire day in each month during the second, third, and fourth years is devoted to a problem in design. The program is made known at the beginning of the exercise, and sketches must be completed and rendered during the same day. Credit is given for this study only after the completion of each year. *I, II; first Saturday in each month, all day;* (*½ for each semester*). Assistant Professor CASE, Mr. VAWTER.

Prerequisite: General Engineering Drawing 1, 2.

10. WORKING DRAWINGS.—Conventional methods for representing the different parts of buildings in general and in detail, conventional colors and sectioning; systems of lettering and figuring drawings; working drawings; tracing; drawings for reproduction. *II;* (2). Mr. CLARK.

Prerequisite: Architecture 2, 3, except for students in ceramics.

11. ARCHITECTURAL SEMINARY.—Original investigations of assigned topics in History of Architecture; reviews of books, abstracts of current technical journals, and other publications. Taken with Architecture 6. *I, II;* (1). Professor RICKER.

12. SUPERINTENDENCE, ESTIMATES AND SPECIFICATIONS.—The subjects treated include the duties of a superintendent, his relations to architect, owner, and contractor, the method of supervising work, systems of keeping building accounts, the usual methods of measurement of materials and work, arrangement of computations in proper and convenient order, and approximate prices of material and labor, which vary in different localities. The methods of estimating by squaring, cubing, units, and quantities are each employed and illustrated by problems. Specifications, their arrangement, methods of classifying material to facilitate writing specifications. Practice is obtained by writing several sets. *Richey's Handbook for Superintendents. II;* (3). Mr. CLARK.

Prerequisite: Architecture 2, 3, 4.

13. HEATING AND VENTILATION.—Scientific theory and practice of warming and ventilating buildings is the object of this study, beginning with fuels and production of heat, then passing to flow of gases through ajutages and pipes, applying these data to calculations of dimensions of air ducts and chimneys. Different systems of

heating by furnaces, hot water, steam, etc., are next examined, with details of each. Sources of impurity in the air and requirements of good ventilation are then considered, with the different methods of ventilation by aspiration, by fans, etc., ending with the study of fans of different types. Numerous problems are given, and heating plants designed. *Carpenter's Heating and Ventilating Buildings; Ricker's Notes on Heating and Ventilation. I;* (4). Professor WHITE.

Prerequisite: Architecture 2, 3, 4, 15; Physics 2a, 2b.

14. ARCHITECTURAL PERSPECTIVE. — Theory of perspective is taught with labor-saving methods of abbreviating work, and designing in perspective is made a special aim. Problems in angular, parallel, vertical, and curvilinear perspective, as well as in perspective shades and shadows, are solved. *Ware's Modern Perspective. I.* (2). Mr. CLARK, Mr. VAWTER.

Prerequisite: General Engineering Drawing 1, 2.

15. REQUIREMENTS AND PLANNING OF BUILDINGS.—A study of the requirements which must be considered to successfully plan schools, churches, libraries, theatres, hospitals, and other usual types of buildings. Numerous problems in planning are given. *II;* (3). Professor WHITE, Mr. VAWTER.

Prerequisite: General Engineering Drawing 1, 2; Architecture 2.

16. RESIDENCE DESIGN.—Practice in design and study of the requirements for dwellings. The work is limited to residence, since this class of buildings is likely to afford the graduate his first opportunity for independent original work. Lectures and drawing *II;* (2). Mr. VAWTER.

Prerequisite: Architecture 2, 3, 8.

17. ARCHITECTURAL DESIGNING.—Simple problems in design are solved by sketch plans, elevations, and sections, rendered as required. The object is to obtain as much practice in design as possible, and the course serves as an introduction to senior work in design. *II;* (3). Assistant Professor CASE.

Prerequisite: Architecture 6, 7, 8, 9, 11, 18, 20.

18. ARCHITECTURAL COMPOSITION.—A careful study is made of the laws of architectural design and of the results of experience. Commences with general principles passing to an examination of proportions employed in most important styles, arrangement of plan, external design in general detail, ceilings, and interior arrangement of corridors, stairways, and entrances, of internal courts, and of

halls for large assemblages. Frequent problems in design afford practical application of the principles. *I;* (3). Assistant Professor CASE.

Prerequisite: Architecture 6, 7, 8, 9, 11, 20.

19. ARCHITECTURAL ENGINEERING.—This continues the study of graphic statics commenced in "Graphic Statics and Roofs," with application to the analysis of metallic roofs of wide span, roof trusses of curved or unusual form, and those supported by abutments and jointed, spherical and conical trussed domes, the stone arch, vault, and dome, and of the Gothic system of vaults and buttresses. The strength of walls, dams, retaining walls, and large chimneys is investigated and a study is made of the effect of moving loads on girders and the construction and details of steel skeleton buildings. Practical applications are made to a series of problems in design for specified cases. *Tucker's Steel Construction, Ricker's Notes on Architectural Engineering. I, II;* (3). Professors RICKER, WHITE.

Prerequisite: Mathematics 2, 4, 6, 7, 9; Theoretical and Applied Mechanics 6, 7, 8, 9; Architecture 2, 3, 5.

20. FREE HAND DRAWING.—Any courses offered in Art and Design amounting to three semester hours. Arrange hours. *I, II;* (3). Mr. LAKE.

22. RENAISSANCE DESIGN.—A study of architectural design applied to large problems. *I;* (3). Assistant Professor CASE.

Prerequisite: Architecture 6, 8, 9, 11, 17, 18.

23. MEDIAEVAL DESIGN.—A prescribed series of tracings of important details of Romanesque and Gothic architecture is made, and problems in construction and design are worked out as fully as time permits. *Ricker's Translation of "Redtenbacher's Leitfaden;"* Lectures by Professor CASE. *I;* (3). Assistant Professor CASE.

Prerequisite: Architecture 6, 7, 9, 11, 17, 18, 20.

25. DESIGN OF ORNAMENT.—The study of the design of architectural ornament to decorate the structural forms usually found in practice. These designs will be in charcoal or crayon at as large a scale as possible. *Lectures, Meyer's Hand-Book of Ornament. I;* (3). Professor WELLS, Mr. VAWTER.

Prerequisite: Architecture 6, 7, 8, 11, 17, 18, 20.

27. DOMESTIC ARCHITECTURE.—Instruction in this subject will be given only in connection with courses in Household Science 2 and 3. Professors RICKER, CASE, WHITE, Mr. VAWTER.

28. Mural Decoration.—Includes the study and analysis of some of the best examples of modern decorated interiors; the appropriate use of various materials; the rendering of scale drawings in color with especial reference to the esthetic effect produced by various harmonies of color. *I, II;* (2). Professor Wells.

Prerequisite: Architecture 7, 8, 9 (1 year), 20; General Engineering Drawing 1.

29a. Short History of Architecture.—(Elective for students in the College of Science or of Literature and Arts.) A careful study of the important historical styles of architecture, their origin, systems of construction, elementary forms, decoration by sculpture and painting, chief kinds of buildings, and a series of selected examples, illustrated by lantern slides. Note-books and additional readings are required. *One weekly lecture with reading of Reinach's "Apollo." History of Architecture. I, II;* (1). Professor Ricker.

29b. History and Criticism of Art.—A course of illustrated lectures supplemented by readings, devoted to a critical analysis of the development of beauty through the historic epochs. *I, II;* (1). Professor Wells.

30. Thesis.—The preliminary work on the thesis must be commenced during the first semester. In the second semester a regular time is assigned on the program for this work, but the amount of time so prescribed shall not be considered to be the total thesis requirement. *I, II;* Professors Ricker, White, Wells, Assistant Professor Case.

31. Architectural Readings.—Intended to give a knowledge of French or German architectural terms to those who elected either of these languages in the freshman year. Students who elected English take Architecture 29b in lieu of this course. French: Reading of *Latoux' Architecture Grecque.* German: Reading of *Nohl's Tagebuch einer Italienischen Reise. I, II;* (1). Professor Ricker.

Prerequisite: Architecture 6; French, German, or English for at least one year.

32. Water Color Rendering.—Exercises in the practice of the different technical methods of rendering architectural drawings and designs. *I;* (1). Mr. Vawter.

Prerequisite: General Engineering Drawing 1; Architecture 8, 9 (1 year), 29, 35.

33. Rendering of Ornament.—Exercises in rendering full sized details of relief ornament and of sculpture for architectural decoration. *I;* (1). Mr. Vawter.

Prerequisite: General Engineering Drawing 1; Architecture 6; 9 (1 year), 20, 35.

34. Architectural Engineering Seminary.—Reports on and discussions of current literature germane to architectural construction. Taken with Architecture 19. *I;* (1). Professor White.

Prerequisite: Architecture 2, 3, 4, 19 (1 semester); Theoretical and Applied Mechanics 6, 7, 8, 9, 10.

35. Perspective Sketches.—Rendering of scenic effects and views in water colors, comprising skies, distance, trees, foliage, shrubbery, and foreground details. The class will practice out-door sketching when the weather permits. *I;* (1). Mr. Vawter.

Prerequisite: General Engineering Drawing 1, 2; to be taken with Architecture 14.

36. Bases of Ornament.—Analysis of the principles of design as they are exemplified in the forms and colors found in nature. The class will work in the fields, forestry, gardens, orchards, hothouses, and museums of the University, and make studies showing the elements of proportion, symmetry, order, and harmony of composition and color, together with the relative size of those mineral, plant, and animal forms which lend themselves to the purposes of decorative design. *I, II;* (2). Professor Wells.

Prerequisite: Art and Design 1.

37. Monumental Inscriptions.—This course includes practice in the designing of suitable letters and decorative embellishments for tablets, memorials, and mural inscriptions. *II;* (1). Professor Wells.

Prerequisite: Art and Design 1.

38. Architectural Laboratory.—Work in the various architectural arts taught in the department will be executed from original designs produced by the students in their class-rooms. No student will be admitted to the studio work until he shall have produced a design worthy of execution. *I, II;* (3). Professor Wells.

Prerequisite: Art and Design 1, 3; Architecture 7, 36.

40. Analysis of Pattern.—A study is made of those principles which apply to the various methods of designing geometrical ornament. The various diagrammatic foundations found in historic orna-

ment will be analyzed, and original problems worked out along similar lines. Lectures and drawings. *II;* (3). Professor Wells.

Prerequisite: Art and Design 1, 3; Architecture 36.

41. Color Problems.—A general exposition of the theory of color as applied to decoration. Examples of color harmony as found in nature and in art will be analyzed, and original problems, applicable to stained glass, mosaic, fabrics, and general interior decoration and color scheming will be required. Lectures and drawing. *I;* (2). Professor Wells.

Prerequisite: Art and Design 1, 3; Architecture 36, 40.

COURSES FOR GRADUATES

101. Architectural Construction.—This may include a study of large wooden buildings, the uses of stone and certain ceramic products in buildings, steel frame buildings, fireproofing buildings, slow-burning buildings, or of plain and reinforced concrete buildings, or of a combination of these.

102. The Sanitation of Buildings.—This may include the arrangement of public buildings with reference to sanitation, systems of heating and of ventilation, or of systems of electric wiring and lighting, or of a combination of these.

103. Architectural Drawing.—This may include advanced graphic statics, stereotomy, advanced perspective, or advanced water color painting, or a combination of these.

104. Architectural Design.—This may include a study with practice covering the evolution of architectural styles, advanced architectural design, applied esthetics, or of industrial design, or of a combination of these.

105. Architectural Practice.—This may include the translation of some selected architectural book, indexing and classification of data, architectural photography, methods of reproducing drawings and specifications, preparation of specifications and estimates for large buildings, office arrangement and methods, or a combination of these.

CIVIL ENGINEERING

1. Roads and Pavements.—The value and importance of road improvement in country highways and the best means of securing it are considered, together with the principles and details of construction of earth, gravel, and macadam roads. In regard to city streets,

the methods of construction, cost, durability, and desirability of the various kinds of pavement, and the question of grades, cross-sections, methods of assessment of cost, and methods of maintenance and cleaning are treated. *Baker's Roads and Pavements. I;* (2). Mr. Slippy.

Prerequisite: Mathematics 4; General Engineering Drawing 1, 2; Civil Engineering 21, 22, 23.

4. Railroad Engineering.—In the field practice the class makes preliminary and location surveys of a line of railroad of sufficient length to secure familiarity with the methods of actual practice. Each student makes a complete set of notes, maps, profiles, calculations, and estimates. The principles of economic location and the construction of railways are considered. A study is made of railway appliances and of maintenance-of-way practice. *Allen's Railway Curves and Earthwork, Talbot's Transition Spiral, and Tratman's Track, I;* (5). Mr. Parker, Mr. Slippy.

Prerequisite: Civil Engineering 21, 22, 23.

4a. Railroad Engineering.—The first eleven weeks of Course 4, for students in municipal and sanitary engineering. (3).

5. Masonry Construction.—In addition to text-book work the students have experiments in the cement laboratory. *Baker's Masonry Construction. I;* (5). Professor Baker, Associate Professor Brooks, Mr. Richey.

Prerequisite: Theoretical and Applied Mechanics 7, 8, 9, 10.

6. Masonry and Reinforced-Concrete Design.—The design of masonry and reinforced-concrete structures. *II;* (2). Associate Professor Brooks.

Prerequisite: Civil Engineering 5.

10. Surveying.—For students in the courses of architecture, architectural engineering, electrical engineering, and mechanical engineering. Areas with chain and compass, U. S. public land surveys, and principles of re-establishing corners; use of transit in finding distance, areas, and in laying out buildings; use of the level in finding profiles and contours. *Pence and Ketchum's Surveying Manual. II;* (2). Mr. Parker, Mr. Slippy.

Prerequisite: Mathematics 4; General Engineering Drawing 1, 2; Physics 1, 3.

12. Bridge Analysis.—Instruction and practice are given in the computation of the stresses in the various forms of bridge trusses, by algebraic and graphical methods, under different condi-

tions of loading. *Merriman and Jacoby's Roofs and Bridges, Parts One and Two. I;* (2). Professor DUFOUR.

Prerequisite: Theoretical and Applied Mechanics 7, 8, 9, 10; and for civil engineering students, Civil Engineering 19 and 20, and for architectural engineers, Architecture 5.

13. BRIDGE DETAILS.—The student makes a tracing of a shop drawing of a bridge, then makes a critical report upon each element of the design, and computes the cost of the bridge. Afterward a comparative study is made of the several forms of details employed by leading designers. *I;* (3). Assistant Professor DUFOUR, Assistant Professor MALCOLM.

Prerequisite: Civil Engineering 12 and free-hand sketches, with dimensions, showing full details of a bridge measured by the students.

14. BRIDGE DESIGN.—Each student designs a railroad plate girder and a truss span, proportioning the sections and working out the details, and afterward makes a complete set of drawings. *Merriman and Jacoby's Roofs and Bridges, Part Three. II;* (5). Professor DUFOUR, Assistant Professor MALCOLM.

Prerequisite: Civil Engineering 12, 13.

14a. BRIDGE DESIGN.—Part of Course 14 above, for municipal and sanitary engineering students. *II;* (3).

15. ADVANCED BRIDGE ANALYSIS.—The computations of stresses and deflections of continuous, draw, cantilever, suspension, and metal-arch bridges; and also the investigation of the statically-indeterminate stresses of framed structures. *Merriman and Jacoby's Roofs and Bridges, Part Four. II;* (2). Professor DUFOUR.

16. ENGINEERING CONTRACTS AND SPECIFICATIONS.—A study is made of the fundamental principles of the law of contract, and of examples of the general and technical clauses of various kinds used in engineering specifications. *Johnson's Engineering Contracts and Specifications. II;* (2). Associate Professor BROOKS.

Prerequisite: Civil Engineering 5, 12, 13; Municipal and Sanitary Engineering 2, 3.

18. TUNNELING.—A study is made of the principles of tunneling, and of the methods employed in constructing the more noted tunnels. *Staiiffer's Tunneling. II;* (1). Associate Professor BROOKS.

Prerequisite: Mechanical Engineering 1, 11; Chemistry 1; Physics 1, 3; Theoretical and Applied Mechanics 7, 8, 9, 10; Civil Engineering 5, 12, 13, 14.

20. Graphic Statics.—Elements of graphic statics and applications in designing structures. *Malcolm's Elements of Graphic Statics. II;* (2). Assistant Professor Malcolm.

Prerequisite: Mathematics 2, 4, 6; Theoretical and Applied Mechanics 7, 8, 9, 10; General Engineering Drawing 1, 2.

21. Surveying.—Recitations, lectures, field and office work in the theory, use and adjustment of the compass, level transit, plane table, and sextant. The field work includes the determination of distances by pacing and with the chain and tape; the determination of areas with the compass, transit, and plane table; profile leveling. A careful study is made of the U. S. land surrvey methods, and court decisions relating to the re-establishment of corners, boundaries, etc. Problems are assigned in the re-location of boundaries, partition of land, interpretation of deeds, and in city and farm surveying. *Johnson's Surveying,* and *Pence and Ketchum's Surveying Manual. I;* (5). Mr. Richey, Mr. Wiley, Mr. Pickels, Mr. Smith.

Prerequisite: General Engineering Drawing 1, 2; Mathematics 4.

22. Topographic Surveying.—The theory and use of the stadia and other instruments used in making a topographic survey are considered, as are also the methods of topographic surveying. Some time is given to topographic drawing. A complete topographic survey based on a system of triangulation is executed, including the calculations, and platting and completing the map. Some attention is given to the precise measurement of bases and angles. *Johnson's Surveying* and *Pence and Ketchum's Surveying Manual. II* (4). Mr. Richey, Mr. Wiley, Mr. Pickels, Mr. Smith.

Prerequisite: Civil Engineering 21; General Engineering Drawing 1, 2; Mathematics 4.

23. Railroad Curves.—A study is made of the geometry of the circle as applied to railroad curves and of the methods of locating curves in the field. *Allen's Railway Curves and Earthwork.* Taken in connection with Topographic Surveying (C. E. 22). *II;* (1). Mr. Richey, Mr. Wiley, Mr. Pickels, Mr. Smith.

Prerequisite: Civil Engineering 21, 22; General Engineering Drawing 1, 2; Mathematics 4.

24. Metal Structures.—The design and calculation of stresses in mill and steel-skeleton buildings. *Ketchum's Steel Mill Buildings* and lectures. *I;* (1). Assistant Professor Malcolm.

Prerequisite: Civil Engineering 12, 13, 19, 20.

25. Seminary.—A weekly meeting for the reading and discussion of papers. Each student prepares and presents one major and two minor papers upon assigned topics, and participates in the discussion of other papers when called upon. Open only to senior civil engineering students. *II;* (1). Professor Baker.

Prerequisite: All of the work of the first three years of the Civil Engineering courses.

30. Thesis.—The preliminary work on the thesis is begun in the first semester, a weekly conference being required, but no specific time is set apart on the program for doing the work or for this conference. A credit of one semester hour is allowed for thesis work during the first semester. In the second semester weekly conferences are required, and a credit of two semester hours is granted. The preparation of the thesis may require more time than a three semester-hour subject. *I;* (1); *II;* (2). Professor Baker.

Prerequisite: All of the work of the first three years of the Civil Engineering courses.

COURSES FOR GRADUATES

107. Bridge Design.
108. Cantilever and Swing Bridges.
110. Metallic Building Construction.
115. Reinforced Concrete Construction.
118. Advanced Graphic Statics.

The above subjects are primarily for graduate students in residence, but may be pursued by students in absentia provided the head of the department is satisfied that the student has opportunities and facilities to enable him to do the work reasonably satisfactorily. Work in absentia is conducted by means of reports and examinations as prescribed for each particular case.

ELECTRICAL ENGINEERING

1. Electrical Engineering.—Lectures and recitations accompanying Electrical Engineering 21, laboratory practice; for students in mechanical engineering. Principles of electrical machinery; selection, installation and operation; distribution of power; motor applications. *II;* (2). Assistant Professor Paine.

Prerequisite: Physics 1 and 3; Mathematics 9.

2. Electrical Engineering.—Lectures and recitations accompanying Electrical Engineering 26, laboratory practice; for students

in civil engineering. Similar to Electrical Engineering 1. *I;* (2). Mr. Bryant and Mr. Willson.

Prerequisite: Physics 1 and 3; Mathematics 9.

4. Telegraphy and Telephony.—Fundamental principles of electric signaling with illustrations from modern telegraphic methods. Wireless telegraphy. Theory of the telephone; commercial instruments; switching methods. Line construction. *II;* (2). Assistant Professor Paine.

Prerequisite: Physics 4; Electrical Engineering 5.

5. Alternating Currents. — A mathematical and graphical treatment of the principles of periodic currents, with theory of the transformer. Application of theory in generators, motors, and transformers. *II;* (4). Professor Brooks.

Prerequisite: Electrical Engineering 16; Physics 4.

6. Alternating Currents.—A short course in alternating current theory and practice; for mechanical engineers. *I;* (2). Assistant Professor Waldo.

Prerequisite: Electrical Engineering 16 and 25.

9. Lighting.—For architects. Electric lamps and other illuminants, and their effective use. Interior wiring. Methods of electrical distribution. *II; for nine weeks* (1). Assistant Professor Paine.

11. Power Plants. — Principles governing the location of power plants, both steam and hydraulic. Economical transmission distance. Selection and installation of generating units; management and testing of complete plants. Estimates, specifications, and superintendence. *II;* (3). Assistant Professor Waldo.

Prerequisite: Electrical Engineering 5 and 15.

12. Electro-Chemistry.—Theory and application upon an engineering scale of electrolysis and heat in the manufacture of metals and other products. The electric furnace. Storage battery engineering. *II;* (2). Assistant Professor Waldo.

13. Seminary.—A weekly meeting for the discussion of topics from current periodicals, and of scientific papers. *I, II;* (1). Assistant Professor Paine.

Prerequisite: Electrical Engineering 16 and 5.

14. Advanced Alternating Currents. — Steinmetz symbolic method. The various types of alternating current motors;—induc-

tion, repulsion and series, also synchronous converters, and their application. *I;* (3). Professor Brooks.

15. Electric Distribution.—Economic arrangement of electric circuits; line construction, overhead and underground; interior wiring; effective lighting. *I;* (3). Assistant Professor Paine.

Prerequisite: Electrical Engineering 16 and 5.

16. Dynamo-Electric Machinery.—Fundamental principles of generators and motors; application of these principles to the design and operation of electrical machinery. *I;* (4). Assistant Professors Paine and Waldo.

Prerequisite: Physics 1 and 3; Mathematics 9.

21. Electrical Engineering Laboratory.—For students in mechanical engineering. Illustration of principles and operation of dynamos, motors, and transformers. *I;* (2). Mr. Willson, and Mr. Hake.

Prerequisite: Electrical Engineering 1.

22. Electrical Engineering Laboratory.—Experimental study of direct current dynamos and motors; use of measuring instruments; operation of electric machinery; complete tests similar to those made by dynamo manufacturers. *II;* (2). Mr. Bryant, Mr. Willson, and Mr. Hake.

Prerequisite: Electrical Engineering 16.

23. Electrical Engineering Laboratory.—Study of alternating current circuits, instruments and machines. Photometry, testing of telephone and telegraph instruments and lines. *I;* (3). Mr. Bryant, Mr. Hake, and Mr. James.

Prerequisite: Electrical Engineering 16, 5 and 22.

24, Electrical Engineering Laboratory. — Advanced direct and alternating current testing; problems in transmission line losses; polyphase operation. *II;* (2). Mr. Bryant, Mr. James.

Prerequisite: Electrical Engineering 23.

25. Electrical Engineering Laboratory. — For students in Mechanical Engineering; similar to Electrical Engineering 22. *II;* (2). Mr. Willson, and Mr. Hake.

Prerequisite: Electrical Engineering 16.

26. Electrical Engineering Laboratory.—For students in civil engineering; similar to Electrical Engineering 21. *I;* (2). Mr. Willson and Mr. Hake.

Prerequisite: Registration in Electrical Engineering 2.

28. Electrical Engineering Laboratory.—A short course in laboratory practice, similar to Electrical Engineering 21, for municipal and sanitary engineers. *I;* (1). Mr. Willson.

Prerequisite: Electrical Engineering 1.

29. Electrical Engineering Laboratory.—To follow Electrical Engineering 25, for students in mechanical engineering; includes alternating current practice. *II;* (2). Mr. Bryant and Mr. James.

Prerequisite: Electrical Engineering 6 and 21.

32. Electrical Design.—Calculation and design of electromagnets and of dynamos direct and alternating, and of transform- *II;* (1). Assistant Professor Waldo and Mr. Stephensen.

Prerequisite: Electrical Engineering 16 and Physics 4.

33. Power Plant Design.—Drawings and specifications for a complete plant, or design for a switchboard and distribution system. *II;* (1). Assistant Professor Waldo and Mr. Stephensen.

Prerequisite: Electrical Engineering 5 and 15.

35. Thesis.—Preliminary reading and investigation is done during the first semester without special assignment of credit; the credit granted the second semester often does not duly cover the time devoted to thesis work. Subjects must be chosen and approved before the first Monday in November. *II;* (3).

COURSES FOR GRADUATES

101. Theory of Alternating Currents.—This may include a study of polyphase circuits, alternating current machinery, alternating current measuring apparatus, or a combination of these subjects.

102. The Generation, Transmission, and Utilization of Electrical Energy.—This may include a study of dynamo-electric machinery, light and power plants, switchboards, transmission lines, motor driving, electro metallurgy, or a combination of these subjects.

103. Electrical Design.—This may include the development of plans for an electrical machine or apparatus of specified character, or for the arrangement of an electrical plant, or for the installation of such machinery or apparatus.

104. Electrical Engineering Research.—This may include an experimental investigation of some electrical phenomena, or tests of some electrical machine, or of a plant of such machines.

DRAWING, GENERAL ENGINEERING

1. Elements of Drafting.—This course includes lettering, sketching and working drawings. The instruction in lettering is limited to free-hand styles and titles for drawings. *Wilson's Free-hand Lettering.*

The drawing rooms have been equipped with standard machine forms, a bench drill, connecting rod, cross-head, hangers, bearings, sectional valves, etc., from which measured sketches are drawn. Time sketches are made from machines in the shops and laboratories.

After the preliminary exercises in the use of drawing instruments, working drawings are made from these sketches. Architectural students are given practice in drawing the orders of architecture instead of machine forms. *I;* (4). Mr. McMaster, Mr. Gibbons, Mr. Dick, Mr. Hinds, Mr. Porter.

2. Descriptive Geometry.—Problems are solved relating to the point, line and plane, the properties of surfaces and intersections and developments. Lectures or recitations precede the work in the drawing room at each period. *Church's Descriptive Geometry,* accompanied by a syllabus and problem book. *II;* (4). Mr. McMaster, Mr. Gibbons, Mr. Dick, Mr. Hinds, Mr. Porter.

Prerequisite: General Engineering Drawing 1.

MATHEMATICS

For a full description of the work of engineering students in mathematics, see Mathematics, pages 245 ff.

MECHANICAL ENGINEERING

1. Shop Practice.—The course in shop practice consists of a suitably graded series of exercises, some of which are chosen from parts of machines under construction in the shops. The following is an outline of the work:

(a) Pattern Shop, 18 weeks.—Care and use of tools, exercises in the construction of joints; turning, pattern making, and corebox making. *I, II;* (3).

(b). Forge Shop, 9 weeks.—Forging, welding iron and steel; tempering lathe and planer tools; annealing and case hardening. *I, II;* (1½).

(c). Foundry, 9 weeks.—Care and management of cupola; floor, bench, and machine molding; green and dry sand cores; casting of brass, alloys, and soft metals. *I, II;* (1½).

The students are required to make inspection trips to commercial shops in the vicinity and to take notes on methods and processes. *I, II;* (3). Assistant Professor GILL, Mr. ELLIS, Mr. LANHAM, Mr. CASPER, Mr. DUNCAN, Mr. TARFLINGER, Mr. COOK.

2. MACHINE SHOP PRACTICE.—Regular lectures are given on the use of tools and on machine shop processes. The character of the work done is indicated in the following outline. First semester,—Exercises in chipping and filing; elementary work on lathe, drill presses and shaper. Second semester,—Fitting and bench work; advanced work on lathe, planer, shaper, milling machine, grinding machine, screw machine, gear cutter, and boring mill. Visits of inspection are made to shops in the adjoining cities. *I, II;* (2½). Assistant Professor GILL, Mr. SCROGGIN, Mr. GOBEN.

3. POWER MEASUREMENT.—This course includes a study of the apparatus used in engine and boiler tests—scales, thermometers, indicators, brakes and dynamometers, gauges, calorimeters, etc. The methods of calibrating and using such apparatus are taught. Tests for indicating horse-power are made on steam engines, pumps, and gas engines. Students are required to make reports on all experiments undertaken. *II;* (3). Assistant Professor THORPE, Mr. GARLAND, Mr. GODEKE.

Prerequisite: Mechanical Engineering, 1, 2; Mathematics 9.

4. ELEMENTS OF MACHINE DESIGN.—The aim of this course is to familiarize the student with machine elements, such as bolts, keys, journals, bearings, couplings, gears, etc. Problems are given requiring simple calculations for strength. Considerable attention is paid to forms of gear teeth and to spur and bevel gears.

Outline of the subject.—Fastenings; riveted joints and boiler stays; journals, pivots, shafts; bearings; forms of gear teeth; spur gears; bevel gears; cams; stepped cones for open belts; point paths. *Kent's Mechanical Engineer's Pocket-book;* also *Unwin's Machine Design. I;* (2½). Mr. DUNKIN, Mr. BENCH.

Prerequisite: General Engineering Drawing 1.

5. MECHANISM (Kinematics of Machinery)—The methods of Reuleaux are followed. The following is an outline of the work done: Analysis of mechanisms with tests for constraint; study of plane motion by the method of virtual centers; velocity diagrams

for various mechanisms; application of kinematic principles to gear trains, cam trains, ball and roller bearings. *II;* (2½). Mr. Dunkin, Mr. Dirks.

Prerequisite: Physics 1 and 3. Registration in Theoretical and Applied Mechanics 7.

6. Heat Engines.—The principles of thermodynamics are applied to the study of the modern heat engines. Special attention is given to steam turbines and gas engines. *I;* (3). Associate Professor Goodenough.

Prerequisite: Mechanical Engineering 7.

7. Thermodynamics.—This course includes the fundamental laws underlying the transformation of heat into work, the properties of perfect gases, saturated and superheated vapors, including ammonia, and the application of thermodynamic principles to refrigeration, air compression, flow of fluids, the injector, etc. The solution of a large number of problems is required. *II;* (3). Associate Professor Goodenough.

Prerequisite: Theoretical and Applied Mechanics 7, 8, 9; Mechanical Engineering 2, 3.

8. Mechanics of Machinery.—The principles of theoretical mechanics are applied to various classes of machinery. The work is varied from year to year, but includes some of the following topics: Hoisting machinery, air compressors; fans and blowers; pumping machinery; hydraulic machinery; the locomotive; friction in machine parts; governors; balancing of engines. *I;* (2). *II;* (3). Assistant Professor Leutwiler.

Prerequisite: Theoretical and Applied Mechanics, 7, 8, 9, 10; Mechanical Engineering 5, 7.

9. Advanced Machine Design.—In this course three lines of work are undertaken: (a) Design of machine tools, such as lathes, shapers, slotters and milling machines. The design of attachments to existing machines or the complete design of some machine that can be built in the shops is often a part of this work. (b) Original design.—This includes the design of machines or devices requiring a considerable invention on the part of the student. (c) Advanced design.—The design of machinery subjected to heavy and variable stresses, such as punches, shears, presses, riveters, cranes, derricks, heavy pumps and motors.

Study of existing machines is required. The student is taught to consult standard work on machine design, such as *Unwin, Reu-*

leaux, and Bach's Maschinenelente. I, II; (3). Assistant Professor LEUTWILER, Mr. DUNKIN.

Prerequisite: Theoretical and Applied Mechanics 7, 8, 9, 10; Mechanical Engineering 1 to 8.

10. ESTIMATES, SPECIFICATIONS, AND SUPERINTENDENCE.—Calculations and estimates as to the cost of machinery, power plants, boilers, chimneys, systems of piping, engines and their foundations, different methods of power transmission. Forms of contracts and specifications are studied. *II;* (1). Professor BRECKENRIDGE.

Prerequisite: Theoretical and Applied Mechanics 7, 8, 9, 10.

11. STEAM ENGINES AND BOILERS.—For students in civil, architectural and municipal engineering. The course includes the constructions, operation, and care of boilers and engines; elementary thermodynamics; the indicator and indicator diagrams; steam engine performance. *II;* (3). Mr. BENCH.

12. MECHANICAL ENGINEERING LABORATORY.—This course includes experiments on engines, pumps, boilers, injectors, air compressors, hoisting appliances, etc.; also experiments with the transmission dynamometer on the power required by shop machinery. Tests of power plants in the vicinity are made. By special arrangement with the management of the Peoria and Eastern Railroad, the Urbana shops and power plants are made available for experimental work. The railway test car affords opportunity for tests in the line of railway engineering. In some cases groups of students are assigned advanced constructive work in the shops to impress upon them the intimate relations existing between the shop and designing room. *Carpenter's Experimental Engineering. I;* (3). Assistant Professor THORPE, Mr. GODEKE, Mr. GARLAND.

Prerequisite: Theoretical and Applied Mechanics 7, 8, 9, 10; Mechanical Engineering 1 to 7.

13. MECHANICAL ENGINEERING LABORATORY.—This is a laboratory course for students in other departments of the College of Engineering. It includes the testing and calibration of instruments and apparatus, use of the indicator, calculation of horse-power and steam consumption, reading of indicator diagrams, and valve setting. *II;* (2). Assistant Professor THORPE, Mr. GARLAND, and Mr. GODEKE.

15. THERMODYNAMICS AND HEAT ENGINES.—For electrical engineering students. This course covers the same ground as courses 6 and 7, but in a shorter time. *I;* (3). Associate Professor GOODENOUGH.

18. Graphic Statics of Mechanism.—This course is divided into two parts. The first part includes the general principles of graphic statics and the analysis of stresses in cranes and simple trusses. The second part deals with the graphical analysis of machines, taking account of sliding, journal and pivot friction, chain friction, rope stiffness, etc. *I;* (2). Mr. Dirks.

Prerequisite: Theoretical and Applied Mechanics 7, 8.

19. Seminary.—The work of this course supplements the other studies of the senior year. Papers on subjects relating to curren engineering practice are read and discussed. Each student subscribes for a technical journal and the indexing of current engineering literature is a part of the work of this course. *I, II;* (1). Professor Breckenridge.

20. Shop Practice for Special Students.—This course is open to those entering as special students, as defined elsewhere under "Admission." The work done does not count for a credit for graduation in any of the technical courses. Mr. Scroggin.

21. Forge Shop Practice.—This course is designed for students taking the course in Agriculture. Instruction is given in forging, such as will be of use to the practical farmer. The course may be started at the beginning or middle of either semester. *Six hours a week;* (2). Mr. Lanham, Mr. Cook.

22. Wood Shop Practice.—This course is intended for students taking the course in agriculture. Students should arrange with the instructor for nine hours of work each week. *I or II;* (3). Mr. Ellis.

23. Steam Engineering.—The following topics are included in the course: General description of boilers, engines, condensers, pumps, and other steam machinery, thermodynamics of gases and steam; compounding, superheating, jacketing, etc.; mechanics of the steam engine; valve gears. *I;* (3). Mr. Garland, Mr. Dirks.

Prerequisite: Theoretical and Applied Mechanics 7, 8.

25. Graphic Kinetics.—This course includes the following: Study of the velocity states of mechanisms by the method of velocity images and polygons; acceleration constructions; Coriolis' law and its applications; kinetics of the steam engine; balancing of rotating and reciprocating masses; force and mass reductions. *II;* (3). Mr. Dirks.

Prerequisite: Mechanical Engineering 5.

26. Advanced Shop Practice.—An elective course for juniors or seniors who desire to take up advanced work in any of the shops. The work may include the construction of commercial machinery, the construction of apparatus or machines originally designed by the student, or a study of modern shop processes, especially those relating to the production of interchangeable parts by means of jigs and templates. The work may be begun in either semester. *Time and credits will be arranged.* Assistant Professor Gill, Mr. Scroggin

Prerequisite: Mechanical Engineering 1, 2.

27. Advanced Laboratory Practice.—This course provides senior students an opportunity to take up special research work in the mechanical engineering laboratory. The character of the work will depend upon circumstances. *Time and credits will be arranged by consultation.* Professor Breckenridge, Assistant Professor Thorpe.

Prerequisite: Mechanical Engineering 3, 12.

29. Seminary for Juniors.—The work of this course requires a study of technical publications and the presentation of abstracts of important articles on engineering topics. It includes also a study of the various technical indexes, methods of classification, and filing systems for clippings, catalogs, and drawings. *I; II;* (1). Professor Breckenridge.

Prerequisite: Rhetoric 2.

30. Machinery and Manufacturing.—Construction, operation and erection of "form changing machines." A study of machinery that transforms raw material into a finished product. Manufactures vs. building; hand labor vs. automatic machinery; the American system of interchangeable machine parts. *II;* (2). Assistant Professor Gill.

31. Generation and Transmission of Power.—Elementary principles of generation and transmission of power. Applications of power for purposes of agriculture, manufacturing, mining, and transportation on land and water. *II;* (2). Assistant Professor Thorpe.

33. Thesis.—Each senior student is required to take up some special subject of investigation and prepare a thesis embodying a review of the literature of the subject, the results of his investigation and a discussion of those results. During the second semester weekly reports are required. A credit of three semester hours is given, but the work may require for its completion more time than

a three semester hour subject. *II;* (3). Professor Breckenridge, Associate Professor Goodenough, Assistant Professors Leutwiler, Thorpe, and Gill.

MECHANICAL TECHNOLOGY

See General Engineering Drawing 1b, Civil Engineering 24, Mechanical Engineering 1, 30, 31, and Railway Engineering 9.

COURSES FOR GRADUATES

102. Modern Shops and Management.—This course includes a study of modern methods of construction; special tools and processes; cost keeping; payment of labor; and kindred topics. Lectures on organization and management are given. *I and II;* (2). Professor Breckenridge and Assistant Professor Gill.

106. Heat Motors and Refrigerating Machinery.—A continuation of courses 6 and 7. Special emphasis is laid on the advanced theory of the internal combustion motor, and of the steam turbine. The general principles and methods of refrigeration are studied. *II;* (3). Associate Professor Goodenough and Assistant Professor Thorpe.

107. Advanced Thermodynamics.—The general principles of thermodynamics are developed and applied to the solution of various physical problems including combustion. A study is made of irreversible processes, conditions of stability, thermodynamic potential and its applications, and changes of state of aggregation. *I;* (2). Associate Professor Goodenough.

109. Advanced Machine Design.—Individual problems are assigned so that the student may specialize along the line of his inclinations. The course also includes the general theory of rational design and the application of mechanics of materials to design. *I or II;* (3). Assistant Professor Leutwiler.

112. Laboratory Investigations.—This course consists of special investigations of problems relating to combustion of fuel, boiler economy, steam engines and turbines, gas engines and producers, properties of explosive mixtures, mechanical refrigeration, etc. Emphasis is laid upon original work. *I and II;* (3). Assistant Professor Thorpe.

114. Engineering Design.—The student is required to make a design with estimates and specifications of a complete engineering

project, such as a manufacturing plant, a power plant, or a pumping station. *I and II;* (3). Assistant Professors THORPE and LEUTWILER.

MECHANICS, THEORETICAL AND APPLIED

4. APPLIED MECHANICS.—To be taken instead of Analytical Mechanics. The topics studied will be nearly identical, but the course is somewhat simplified. *Morley's Mechanics for Engineers. I;* (4). Mr. MURDOCK.

Prerequisite: Mathematics 6.

5. STRENGTH OF MATERIALS.—To be taken instead of Resistance of Materials. The course of study will be nearly the same, though somewhat simplified. *Merriman's Mechanics of Materials. II; Laboratory, weekly;* (4). Mr. MURDOCK, Mr. ENGER.

Prerequisite: Mathematics 6; Theoretical and Applied Mechanics 4.

6. ENGINEERING MATERIALS.—Weekly lectures on the properties and requirements for materials used in engineering construction, the effect of methods of manufacture upon the quality of the material, and the specifications and standard tests used to secure acceptable grades of material. *I;* (1). Professor TALBOT, and Assistant Professor MOORE.

Prerequisite: Registration in Theoretical and Applied Mechanics 9.

7, 8. ANALYTICAL MECHANICS.—The mechanics of engineering rather than that of astronomy and physics, is here considered. Attention is given to fixing the fundamental concepts and demonstrating the general principles of equilibrium and motion and to the application of principles and methods to engineering problems. Training in the statement of conditions and in the use of data is given. This subject requires a thorough working knowledge of the mathematics preceding it in the course. The work begins in the second semester, and in the following semester it is given concurrently with Theoretical and Applied Mechanics 9. *Maurer's Technical Mechanics.. II;* (3). *I;* (2½). Mr. ENGSTROM, Mr. AGG, Mr. MURDOCK, Mr. ENGER.

Prerequisite: For 7, Mathematics 7, registration in Mathematics 9; for 8, Mathematics 9, Theoretical and Applied Mechanics 7.

9. Resistance of Materials.—Thorough training in the elementary principles of the mechanics of materials, with experiments and investigations in the materials laboratory to verify the experimental laws; problems in ordinary engineering practice to train the student in the use of his knowledge. Attention is also given to the quality and requirements for structural materials. *Merriman's Mechanics of Materials. This course is given concurrently with Theoretical and Applied Mechanics 8; Laboratory weekly; I.* (3½). Mr. Engstrom, Mr. Agg, Mr. Murdock, Mr. Whittemore, Mr. Enger, Mr. Fleming.

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 7; Registration in Theoretical and Applied Mechanics 8.

10. Hydraulics.—Text-book and laboratory work. The laws of the pressure and the flow of water and its utilization as motive power are considered. Experimental work in the observation and measurement of pressure, velocity, and flow, in power and efficiency, and in the determination of experimental coefficients. *Merriman's Hydraulics. Laboratory weekly. II;* (3). Mr. Engstrom, Mr. Agg, Mr. Murdock, Mr. Enger, Mr. Whittemore, Mr. Fleming.

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 8.

COURSES FOR GRADUATES

101. Analytical Mechanics.

102. Resistance of Materials.

103. Hydraulics and Hydraulic Engineering.

104. Experimental Work in Laboratory of Applied Mechanics.

105. Experimental and Analytical Work in Reinforced Concrete.

In the courses named above advanced work will be outlined to meet the requirements of individual cases.

MUNICIPAL AND SANITARY ENGINEERING

2. Water Supply Engineering.—This subject is intended to cover the principal features of water supply engineering, including source of supply, hydraulics of wells, stream flow, impounding and storage reservoirs,, conduits and pipe lines, pumps and pumping machinery, stand-pipes and elevated tanks, the distribution system, and tests and standards of purity of potable water. Designing

weekly. *Turneaure's Public Water Supplies. I;* (4). Professor Talbot, Mr. Habermeyer.

Prerequiste: Theoretical and Applied Mechanics 9, 10; Chemistry 1; Mechanical Engineering 11.

3. Sewerage.—The design and methods of construction of sewerage systems are treated, including the following: Sanitary necessity of sewerage; water carriage systems, both separate and combined; surveys and general plans; hydraulics of sewers; house sewage and its removal; relation of rainfall to storm water flow; determination of size and capacity of sewers; forms and strength of sewer appurtenances; modern methods of sewage disposal; estimates and specifications. Designing weekly. *Folwell's Sewerage. II;* (3). Professor Talbot, Mr. Habermeyer.

Prerequisite: Theoretical and Applied Mechanics 9, 10; Chemistry 1; Municipal and Sanitary Engineering 2.

5a. Bacteriology.—For students in Municipal and Sanitary Engineering. This course includes the identification and classification of bacteria, and of allied organisms, their relations to health and to disease, the methods of separation and cultivation, and the methods of air and water analysis. The laboratory is furnished with sterilizers, culture ovens, microscopes, etc., and students have abundant opportunity to do practical work. This course follows Civil Engineering 4a. *I; last 7 weeks;* (2). Professor Burrill, Mr. Briscoe.

6a, b. Water Purification, Sewage Disposal, and General Sanitation.—This work includes the consideration of impurities in water supplies and the study of the methods and processes of their removal; the modern methods of sewage disposal by filtration, chemical precipitation, irrigation, etc., with a study of representative purification plants; garbage collection and disposal; sanitary restrictions and regulations and general sanitation. Lectures, seminary work and drafting. *I;* (2). *II;* (3). Professor Talbot, Mr. Habermeyer.

Prerequisite: Municipal and Sanitary Engineering 2, 3, 5a; Chemistry 1, 3b, 10b.

7. Water Supply Engineering.—This course is similar to Municipal and Sanitary Engineering 2, and is intended for students in Sanitary Science. Designing weekly. *Turneaure's Public Water Supplies. I;* (4). Professor Talbot, Mr. Habermeyer.

Prerequisite: Theoretical and Applied Mechanics 4, 5, 10; Chemistry 3a.

8. Sewerage.—This course is similar to Municipal and Sanitary Engineering 3, and is intended for students in Sanitary Science. Designing weekly. *Folwell's Sewerage. II;* (3). Professor Talbot, Mr. Habermeyer.

30. Thesis.—This work is required in the senior year. It takes up an investigation or design of an engineering problem. *II;* (2). Professor Talbot and Mr. Habermeyer.

COURSES FOR GRADUATES

102. Water Supply Engineering.—Advanced work in Water Supply Engineering will be arranged to fit the conditions of individual classes. Sources and requirements of water supply, general water-works construction, pumps and pumping, design of reservoirs and elevated tanks, and water works operations and the valuation of plants are among the topics which may be treated.

103. Sewerage.—General sewerage design and construction, a study of sewerage systems, hydraulics of sewers, and a study of run-off are examples of the work which may be taken up.

106. Water Purification, Sewage Disposal and General Sanitation.—The design, construction, and operation of water purification plants and of sewage disposal works, the study of existing plants, comparison of results and cost of construction and operation may be taken up in this course. Experimental work on water filters, septic tanks, etc., may be included. Garbage disposal and general sanitation may also be taken.

RAILWAY ENGINEERING

COURSES IN RAILWAY MECHANICAL ENGINEERING

1. Locomotives.—A study of the constructive features of the locomotive in its various parts and their relations. Mechanism of the locomotive. Development of types, their limitations and adaptations. Selection of type and outline of principles of design for specified service. Other railway motors. *I;* (2). Associate Professor Schmidt.

Prerequisite: Theoretical and Applied Mechanics 8, 9; Physics 1, 3; Mechanical Engineering 23.

2. Locomotive Design.—Calculations and design of engine, boiler, and carriage details. Study of current standards and propor-

tions. Drafting room system. *I;* (3). Associate Professor SCHMIDT, Assistant Professor LEUTWILER.

Prerequisite: Mechanical Engineering 1 to 5, 7; Registration in Railway Engineering 1.

3. SHOP SYSTEMS.—Study of the arrangement and equipment of railway shops and roundhouses. Management, organization, and wage systems. Shop visits. *I;* (1). Mr. WENGER.

Prerequisite: Mechanical Engineering 1, 2, 4.

4. LOCOMOTIVE ROAD TESTS.—Arrangements for locomotive road tests have been perfected with the roads entering Champaign and Urbana. Several locomotives have been equipped for this work and tests made in actual service. This work is facilitated by the use of the railway test car owned by the department. The course also includes brake tests and other laboratory work. *I;* (3). Mr. MARQUIS.

Prerequisite: Mechanical Engineering 1, 2, and 3 or 23, and either Mechanical Engineering 7, or Registration in Mechanical Engineering 15.

5. SHOP AND AUXILIARY EQUIPMENT.—Shop tools. Compressed air in shop service. Pumping plants. Water supply and purification. Construction and operation of the air-brake. This course is supplemented by inspection and tests of plants in service. The department owns sufficient air-brake equipment for demonstrations, and the courtesy of the instructors in charge of the air-brake cars of the Illinois Central Railroad Company and the Cleveland, Cincinnati, Chicago and St. Louis Railway Company makes these cars also available for instruction. *II;* (1). Mr. WENGER.

Prerequisite: Railway Engineering 3.

7. ADVANCED DESIGN.—Advanced problems in locomotive and car design. Special machinery and auxiliary equipment. *II;* (3). Associate Professor SCHMIDT, Assistant Professor LEUTWILER.

Prerequisite: Railway Engineering 2.

8. DYNAMOMETER CAR TESTS.—Investigations, in regular passenger and freight service, of locomotive tractive effort and train resistance. Tonnage rating problems. Resumè of train resistance experiments. *II;* (1). Mr. MARQUIS.

Prerequisite: Railway Engineering 4.

10. SEMINARY.—Discussion of current topics and review of railway journals. Assigned topics and reports. *I, II;* (1). Associate Professor SCHMIDT. (Open only to seniors in the railway engineering department).

11. Railway Tests.—This course is for students in other departments of the College of Engineering. It includes tests on steam roads and work with the electric test car. *II;* (1). Mr. Wenger and Mr. Marquis.

Prerequisite: Electrical Engineering 16, 25, 6 or 1 and 21; Mechanical Engineering 1, 2, 3.

30. Thesis.—Original investigation, report and discussion. Research or experiments, or both. The thesis is designed to supply the opportunity for the demonstration of the student's ability to apply independently his training to the solution of some problem or the investigation of some subject. A credit of three hours is given, but more time may be required. *II;* (3). Associate Professor Schmidt, Mr. Wenger.

courses in railway civil engineering

31. Railway Yards and Terminals.—Instruction is given in the methods of proper location of yard tracks to insure efficiency of operation. The course includes a consideration of the details of track construction as well as of the general question of yard design. *II;* (1).

32. Railway Structures.—Each student makes a set of drawings of the details of railway structures, the dimensions being of his own measurement. He afterwards is given problems in original design which are criticised and corrected. *II;* (1).

Prerequisite: Civil Engineering 4, and Theoretical and Applied Mechanics 7, 8, 9, 10.

33. Economic Theory of Railway Location.—This course includes a study of the influence of location upon the net earning power of a line of railway. *I;* (4).

Prerequisite: Civil Engineering 4, and Theoretical and Applied Mechanics 7 and 8.

34. Railway Operation.—Instruction is given in the duties of the various departments and officers of a railway; and the routine of the work done is considered in some detail. *II;* (4).

Prerequisite: Economics 13.

35. Signal Engineering.—A study is made of the general arrangement of automatic block signals on single and double track lines, and of interlocking systems for terminals as well as of the details of construction and of operation. *II;* (1).

Prerequisite: Civil Engineering 4.

50. Seminary.—A weekly meeting for the presentation and discussion of papers on a prearranged course of reading. This work is supplementary to that of the class room, and includes reviews of current engineering literature and of standard works of interest to railway engineers. *II;* (1).

60. Thesis.—The preliminary work is begun early in the first semester and a credit of one semester hour is allowed for weekly reports of progress. The work is continued through the second semester and weekly conferences and reports are required. A credit of two semester hours is allowed for the work in the second semester. *I;* (1). *II;* (2).

COURSE IN RAILWAY ELECTRICAL ENGINEERING

61. Traction.—Construction and equipment of electric railways; relative economy of steam and electric traction. Limitations and adaptations of steam and electric traction as determined by character of location, traffic and service. *II;* (2). Associate Professor Schmidt.

Prerequisite: Theoretical and Applied Mechanics 8; Electrical Engineering 16 and 5 or 1 and 21 or 16, 25 and 6.

62. Railway Laboratory and Road Tests.—Electrical laboratory problems and electric car tests of power consumption, resistance, acceleration and braking. *I;* (2). Mr. Wenger.

Prerequisite: Theoretical and Applied Mechanics 8; Electrical Engineering.

63. Railway Laboratory and Road Tests.—A continuation of Course 62, consisting principally of road tests with the electric car. *II;* (2). Mr. Wenger.

Prerequisite: Railway Engineering 62.

AGRICULTURAL SUBJECTS

AGRONOMY

The department of agronomy gives instruction in those subjects which relate especially to the field and its affairs, as drainage, farm machinery, field crops, the physics and bacteriology of the soil, manures, rotation and fertility, the history of agriculture, farm management and comparative agriculture.

1. Drainage and Irrigation.—Location of drains and irrigation conduits, leveling, digging, laying tile and pipes, filling, and

subsequent care; cost of construction and efficiency; sewers for the disposal of waste water from farm buildings and the sewage from kitchen and toilet; farm water pipes, pipe and thread cutting. Class work, laboratory and field practice. *I, first half;* (2½). Mr. CRANE.

2. FIELD MACHINERY.—The tools and machinery of the field,—plows, harrows, and hoes; seeders, drills, corn and potato planters; cultivators, weeders, and spraying machines; mowers, rakes, self-binders, corn harvesters and huskers, potato diggers, wagons, etc. Class work and laboratory practice, including setting up and testing machines, noting construction and elements necessary for successful work. Sections A and B will alternate with Mechanical Engineering I. *I;* (2½). Mr. CRANE.

3. FARM POWER MACHINERY.—Horse-power, gas engines, traction engines, wind mills, pumps, corn shellers, feed cutters, grinders, and threshing machines,—their construction, operation, efficiency, durability, and care. Class room and laboratory work. Sections A and B will alternate with Mechanical Engineering I. *II;* (2½). Mr. CRANE.

4. FARM BUILDINGS, FENCES, AND ROADS.—The arrangement, design, construction and cost of farm buildings, especially of barns, granaries and silos; the different kinds of fences, their cost, construction, efficiency, and durability; cost and construction of roads and walks. Class work and practice in designing and drafting buildings, operating fence-building machines, setting and testing fence posts, making walks, etc. *II;* (5). Mr. CRANE.

5. SEEDS.—Quality and preservation. Judging of corn, oats, wheat, etc., and a study of market grades of farm crops; shrinkage of grain and care of stored crops to prevent injury and loss. Class and laboratory work. *I, first half;* (2½). Mr. CENTER.

6. SEEDS. — Germination and growth. Vitality, germination, preservation of seeds, methods of seeding; conditions of plant growth; peculiarities of agricultural plants in respect to structure, habits, and requirements for successful growth; enemies to plant growth, weeds and weed seeds, their identification and methods of destruction, fungous diseases, such as smut of oats and wheat, and blight, scab, and rot of potatoes, methods of prevention; insects injurious to farm crops and how to combat them. Class room laboratory, and field work. *II, second half;* (2½). Mr. HEGNAUER.

7. FARM CROPS.—A special study of farm crops. Rotation or succession of crops with special reference to systematic farming

and economic distribution of labor, methods of culture, cost of production, consumption of products and residues or by-products. Class work supplemented by laboratory work and a study of the results of previous experiments; special reference to Illinois conditions. *Fall semester; I, second half, and II, first half;* (5). Mr. HUME.

Prerequisite: Either Agronomy 6, Botany 1, or Botany 11.

8. FIELD EXPERIMENTS.—Special work in the field, consisting of testing varieties of corn, oats, wheat, potatoes, and other farm crops; methods of planting corn, seeding grains, grasses, and other forage crops; culture of corn, potatoes and sugar beets; practice in treating oats and wheat for smut, and potatoes for scab, and studying the effect upon the crops; combating chinch bugs and other injurious insects. Other practical experiments may be arranged with the instructor. *II, and summer vacation;* (2½, 5). Mr. HUME.

Prerequisite: Agronomy 7, 12.

9. SOIL PHYSICS AND MANAGEMENT.—Effects of the different methods of treatment of soils and the influence of these methods upon the moisture, texture, aeration, fertility, and production. Review of origin of soils and the various methods of soil formation; a study of their mechanical composition and classification; of soil moisture and means for conserving it; of soil texture as affecting capillarity, osmosis, and diffusion as affected by plowing, harrowing, cultivating, rolling and cropping; of the wasting of soils by washing; fall or spring plowing and drainage as affecting moisture, temperatures, and root development. Class and laboratory work, comprising the determination of real and apparent specific gravity, water holding capacity and capillary power of various soils; the study of the physical effects of different systems of rotation and of continuous cropping with various crops, and the mechanical analysis of soils, etc. *I;* (5). Assistant Professor MOSIER and Mr. WILLIS.

Prerequisite: Chemistry 1, or two credits in entrance physics, Geology 12, and one year of University work.

10. SPECIAL WORK IN SOIL PHYSICS.—For students wishing to make a further study of the physical properties of special soils, including the mechanical analysis of such soils by the means of the centrifugal method. Includes a study in the field of the effects of discing, harrowing, and rolling, time and depth of cultivation, with special reference to soil moisture and temperature. This work will

be supplemented by a study of experiments that have been conducted along these lines. *I or II;* (2-5). Assistant Professor MOSIER.

Prerequisite: Agronomy 9.

12. SOIL FERTILITY, FERTILIZERS, ROTATIONS. — The influence of fertility, natural or supplied, upon the yield of various crops; effect of different crops upon the soil and upon succeeding crops; different rotations and the ultimate effect of different systems of farming upon the fertility and productive capacity of soils; supplemented by a laboratory study of manures and fertilizers, their composition and their agricultural and commercial value; of soils cropped continuously with different crops and with a series of crops; of the fertility of soils of different types, or classes from different sections of Illinois. *II;* (5). Professor HOPKINS and Mr. ECKHARDT.

Prerequisite: Chemistry 13a; Agronomy 6, 9.

13. INVESTIGATION OF THE FERTILITY OF SPECIAL SOILS.—Primarily designed to enable the student to study the fertility of those special soils in which he may be particularly interested, and to become familiar with the correct principles and methods of such investigations. It includes the determination of the nature and quantity of the elements of fertility in the soils investigated, the effect upon various crops of different fertilizers added to the soils, as determined by pot cultures, and, where possible, by plot experiments. This work is supplemented by a systematic study of similar work of experiment stations and experimenters. *I, II;* (2-5). Professor HOPKINS and Mr. ECKHARDT.

Prerequisite: Agronomy 12.

15. COMPARATIVE AGRICULTURE.—Reasons for the differences in the agriculture of different times, peoples, and countries, and why it is that the agriculture of a region or of a farm is a definite and individual problem, together with the need of harmonizing agricultural practice with natural conditions and the findings of science. Circumstances that influence agricultural practice, as soil, climate, machinery, race, custom, land tenure, etc.; what is the best under different conditions. Lectures; *II;* (1). Professor DAVENPORT.

Prerequisite: Two years of University work.

16. GERMAN AGRICULTURAL READINGS.—A study of the latest agricultural experiments and investigations published in the German language, special attention being given to soils and crops. The current numbers of German journals of agricultural science will

be required and used as a text. This course is designed to give the students a broader knowledge of the recent advances in scientific agriculture, and, incidentally, it will aid him in making a practical application of a foreign language. Should be taken after Agronomy 12. *II;* (2). Professor HOPKINS.

Prerequisite: Two years' work in German.

17. FARM MACHINERY.—Expert work in farm machinery, chiefly with harvesting machinery and gasoline engines. For students preparing themselves for experting these machines in the field. *II; first half or second half;* (2½).

Prerequisite: Agronomy 2.

18. INVESTIGATION AND THESIS.—This course varies in the subject matter according to the lines in which theses are written. *I, II;* (5-10).

19. RESEARCH WORK IN FARM MECHANICS.—*I or II.* (2½-5). Consult instructor regarding time and requirements. Mr. CRANE.

20. CONCRETE CONSTRUCTION FOR AGRICULTURAL PURPOSES.—Testing materials and mixing concrete, use of re-enforcements in fence posts, water tanks, silos, etc. A course designed to fit applied farm practices. *I, second half;* (1). Mr. CRANE.

COURSES FOR GRADUATES

101. SYSTEMS OF SOIL INVESTIGATION; SOURCES OF ERROR AND METHODS OF CONTROL, INTERPRETATION OF RESULTS. Professor HOPKINS.

102. THE WORLD'S SUPPLY OF PLANT FOOD MATERIALS, INCLUDING METHODS OF UTILIZATION. Professor HOPKINS.

103. DIFFERENT SYSTEMS OF AGRICULTURAL PRACTICE AND THEIR ULTIMATE EFFECT UPON THE SOIL. Professor HOPKINS.

104. DRAINAGE WATERS; SURFACE AND SUB-DRAINAGE, WITH SPECIAL REFERENCE TO SOIL FERTILITY. Assistant Professor PETTIT.

105. DETAILED STUDY OF SOIL INVESTIGATIONS IN PROGRESS IN ILLINOIS. Professor HOPKINS, Assistant Professor PETTIT.

107. EROSION OF SOILS BY SURFACE WASHING AND METHODS OF PREVENTION. Assistant Professor MOSIER.

108. THE MECHANICAL COMPOSITION OF SOILS; ITS INFLUENCE UPON GRANULATION, ABSORPTION AND RETENTION OF MOISTURE, AND OTHER PHYSICAL PROPERTIES AFFECTING CROP PRODUCTION. Assistant Professor MOSIER.

109. Experimentation in the Production of Field Crops.—The work may include actual practice in planning and conducting field experiments. Mr. Hume.

112. Plant Breeding, Including a Detailed Study of Experiments at this Station, and of Methods and Results Reported from Other States and from Foreign Countries. Assistant Professor Smith.

HORTICULTURE

1. Principles of Fruit Growing.—An introdutory course dealing with the fundamental principles of fruit culture. It embraces a study of location with reference to climate and markets, planting, soil treatment, pruning, protection from insects and diseases, harvesting and marketing. Botany 1 or 11 should be taken before or with this course. Recitations, reference readings, and practical exercises. *I;* (5). Assistant Professor Lloyd, Mr. Pickett.

2. Small Fruit Culture.—A study of the strawberry, raspberry, blackberry, dewberry, currant, gooseberry, and cranberry. Each fruit is studied with reference to history, importance and extent of cultivation, soil, location, fertilizers, propagation, planting, tillage, pruning, insect enemies, diseases, varieties, harvesting, marketing profits. This course should be preceded by Horticulture 1. Recitations and reference readings with occasional practical exercises. *II;* (2). Assistant Professor Lloyd.

3. Vegetable Gardening.—An introductory course embracing a study of the general principles of vegetable gardening and a brief consideration of the cultural requirements of each of the common vegetables. *II;* (3). Assistant Professor Lloyd.

4. Plant Houses.—A study of the construction, cost, and management of various types of plant houses. Textbook and laboratory work. *I;* (5).

5. Plant Propagation.—Grafting, budding, layering, making cuttings, pollination, seedage, etc. Text-book and laboratory work. *II; first half;* (2½). Mr. Howe.

6. Nursery Methods.—A study of some details of nursery management and their relation to horticulture in general. Lectures and reference readings. *II; first half;* (2½). Mr. Pickett.

Prerequisite: Horticulture 1, 5; Entomology 4.

7. Spraying.—The theory and practice of spraying plants, embracing a study of materials and methods employed in the com-

bating of insects and fungous diseases. Recitations, reference readings, and laboratory work. *II; second half;* (2½). Assistant Professor LLOYD.

Prerequisite: Horticulture 1, Entomology 4, Chemistry 1.

8. ORCHARDING.—A comprehensive study of pomaceous and drupaceous fruits. Special attention is given to considerations regarding the management of large commercial orchards, including the harvesting, grading, packing, storing and marketing of the crop. The laboratory work includes practice in the identification and description of varieties, and the judging of fruit exhibits. *II;* (5). Associate Professor CRANDALL, Mr. PICKETT.

Prerequisite: Horticulture 1; Botany 1 or 11.

9. FORESTRY.—This course embraces a study of forest trees and their natural uses, their distribution, and their artificial production. The relations of forest and climate are studied, and the general topics of forestry legislation and economy are discussed. *II;* (2). Professor BURRILL.

Prerequisite: Botany 1 or 11.

10. LANDSCAPE GARDENING.—For all agricultural students. Lectures, reference readings, problems and plant studies, with special reference to home surroundings. *I;* (3). Assistant Professor WYMAN.

11. STUDY OF CULTIVATED PLANTS.—A study of the relationship and classification of certain economic and ornamental plants of the temperate zone, including practice in the identification of species. Lectures, assigned readings and examination of living plants and herbarium specimens. *I;* (2). Professor BLAIR, Associate Professor CRANDALL.

Prerequisite: Botany 2.

12. EVOLUTION OF HORTICULTURAL PLANTS.—A study of the modifiations of plants under culture. Reviews the history of plants now cultivated, their botanical classification and geographical distribution. Treats of the modifications that have taken place and the agencies through which development from wild types is traced. Includes a study of plant variation; the theoretical causes and the observed factors that influence variation, particularly food supply, climate and cross-fertilization. *I; second half;* (2½). Associate Professor CRANDALL.

Prerequisite: Two years of University work, including Horticulture 1 and Botany 2.

13. Viticulture.—A comprehensive study of the grape and its products. *I; second half;* (2½). Associate Professor Crandall.

Prerequisite: Horticulture 1, 5.

14. Nut Culture.—The cultivation and management of nut-bearing trees for commercial purposes. *II; first half;* (2½). Mr. Pickett.

Prerequisite: Horticulture 1, 5.

15. Commercial Floriculture.—A study of the growing of cut flowers and decorative plants. Recitations and practical exercise in the greenhouse. *II;* (5).

Prerequisite: Horticulture 4, 5. Botany 2.

16. General Horticulture.—For students not registered in the College of Agriculture. A course covering the general principles and processes of fruit-growing, vegetable gardening, floriculture and ornamental planting. *I;* (5). Professor Blair, Associate Professor Crandall, Assistant Professor Lloyd, Assistant Professor Wyman.

17. Commercial Horticulture.—A course giving practical training for those students intending to follow horticulture as a business. Work in houses, orchards, and gardens,—suited to ability and requirements of each student. Special permission required for admission into this course. *I or II;* (5). Assistant Professor Lloyd, Associate Professor Crandall.

18. Experimental Horticulture.—A course for those intending to engage in professional horticulture or experiment station work. For advanced students. *II;* (5). Professor Blair, Associate Professor Crandall, Assistant Professor Lloyd.

Prerequisite: Twenty hours work in horticulture.

19. Amateur Floriculture.—A study of window gardening and the growing of flowers on the home grounds, including the culture of roses and flowering shrubs. Recitation and practical exercises. *I, II;* (2).

Prerequisite: Botany 1 or 11.

20. Market Gardening.—A laboratory course designed to give practical training in the growing and handling of vegetables for market. This course may be taken at the same time as the last half of Horticulture 3, or independently, after that course has been taken. *II; second half;* (1½). Assistant Professor Lloyd.

Prerequisite: Horticulture 3.

21. Special Vegetable Crops.—In this course the work of each student is largely individual, being an exhaustive study of some vegetable or group of vegetables from a horticultural standpoint. Reference readings and field experiments. *II; second half and summer vacation;* (2½-5). Assistant Professor Lloyd.

Prerequisite: Horticulture 3.

22. Special Investigation and Thesis Work.—*I; II;* (5-10).

23. Landscape Design.—For students taking the professional course in landscape gardening. A study of the composition of public and private grounds. Lectures reference readings and plans. Two years. *I; second half; II; first half;* (1½). Assistant Professor Wyman.

Prerequisite: Architecture 8, 17, 18.

24. Landscape Horticulture.—For students taking the professional course in landscape gardening. A study of hardy ornamental trees and shrubs with respect to character, suitability for landscape work, and culture. *I; first half; II; second half;* (1½).

25. Advanced Landscape Design.—Landscape and garden composition by means of plans and problems. *I; second half; II; first half;* (3). Assistant Professor Wyman.

Prerequisite: Horticulture 23.

26. Landscape Planting Plans.—Planting design by means of plans for the execution of landscape and garden planting, showing the arrangement of plants in detail. *I; second half; II; first half;* (2). Assistant Professor Wyman.

Prerequisite: Architecture 8, 17, 18; Horticulture 24.

27. History and Principles of Landscape Gardening.—Lectures and reference readings, with incidental drawing. *I; second half; II; first half;* (1). Assistant Professor Wyman.

28. Exotics.—A study of tender decorative plants used in landscape gardening. *I; first half; II; second half;* (1).

29. Herbaceous Perennials and Annuals.—A study of hardy herbaceous plants suitable for landscape gardening work. *I; first half; II; second half;* (1).

COURSES FOR GRADUATES

108. Pomology.—Studies of special problems regarding the relationship, adaptation, improvement, propagation, cultivation, pruning, protection, preservation or marketing of orchard fruits. Professor Blair and Associate Professor Crandall.

102. Pomology.—Studies of special problems regarding the adaptation, propagation, cultivation or pruning of small fruits. Associate Professor Crandall.

103. Olericulture.—Studies of special problems regarding the structure, cultural requirements, and improvement of vegetables. Assistant Professor Lloyd.

109. Forestry.—Problems in general forestry and investigation of forest growths. Professor Burrill.

ANIMAL HUSBANDRY

In this department are given courses covering the separate study of sheep, swine, and beef cattle, and their products; heavy and light horses, with their care and training; the management of farm herds and flocks; and the principles and practice of feeding and of breeding.

1a. Mutton and Wool Production.—A study of the market classes and grades of sheep and of wool, and the value of the grades under the various classes in each subject as indicated by current market reports. Methods of breeding and feeding sheep for the production of mutton and wool. Extensive practice in judging, with lectures and assigned readings. *I; first half;* (2½). Mr. Coffey.

Prerequisite: Animal Husbandry 8 and 21.

1b. Breeds of Sheep and Management.—The history, development, and characteristics of the breeds suitable for the production of mutton and wool. The breeding, care and feeding of sheep for breeding and for show purposes. Extensive practice in judging, with lectures and assigned readings. *I; second half;* (2½). Mr. Coffey.

Prerequisite: Animal Husbandry 8, 21 and 1a.

2. Swine Husbandry.—Market classes; prime heavy, butcher, packing, light hogs and pigs, together with the various grades of the same; market reports; practice in judging. (b) Breeds of swine, origin, development, and characteristics. (c) Pork and bacon production from the standpoint of market requirements and the economy of production from the standpoint of the producer. The breeding, housing, care, and feeding of swine for breeding and for show purposes. *II;* (5). Assistant Professor Dietrich.

Prerequisite: Animal Husbandry 21 and 8.

4 and 5. Market Classes of Horses and Mules.—An outline of the market classes including draft horses, chunks, wagon, carriage, road and saddle horses; mining, cotton, sugar, farm, and draft mules. A study of conformation from the standpoint of market requirements. Extensive practice in judging, lectures and assigned reading. *II; first half;* (2½). Mr. Obrecht.

7. Principles of Animal Nutrition.—The income and expenditure of matter and of energy in the animal body are considered in their various phases. The principles of governing body metalolism are formulated with reference to their bearing upon feeding methods and the interpretation of feeding experiments. *I; first half;* (2½). Assistant Professor Dietrich.

Prerequisite: Chemistry 1, 3b, 4, 13; entrance Physics, or its equivalent; Animal Husbandry 21, and one year of Botany or Zoology.

8. Elementary Stock Breeding.—This course is designed to familiarize the student with the more common principles of animal breeding with special reference to the range of variability and effects of selection. *I; first half; or I; second half;* (1). Mr. Coffey.

9. Investigation and Thesis.—Upon lines to be arranged with the instructor for one or two semesters, according to the nature of the subject. (5-10). Professor Mumford, Mr. Hall, Mr. Obrecht, Assistant Professor Dietrich, Mr. Coffey, Mr. Allison.

10. Meat.—The structure and composition of meats; quality, market classification and values of beef, mutton, and pork, both in the carcass and the wholesale and retail cuts of the same; breeding and feeding of the animal as affecting the value of the carcass and the quality of the meat; farm and packing-house methods of slaughtering, handling, and curing meats; by-products of slaughter and their bearing upon the cost of meat. *II; first half;* (2½). Mr. Hall.

11. Market Classes and Grades of Beef Cattle.—An outline of the market classes and grades, including the various grades of beef cattle, butcher stock, cutters and canners, stokers and feeders, and veal calves. A study of beef type from the standpoint of the butcher, the feeder, and the breeder. The value of each grade according to market reports. Extensive practice in judging, with lectures and assigned readings. *I; second half;* (2½). Mr. Hall, Mr. Allison.

12. Breeds of Beef Cattle.—The history, development, and characteristics of the breeds suitable for beef protection. Tracing pedigrees and critical study of the same. (This course is intended for students expecting to own or manage pure-bred herds.) A study in breed types as exemplified in individual animals in the University and other herds. Lectures, assigned readings, and extensive practice in judging. *II; first half;* (2½). Professor Mumford, Mr. Allison.

Prerequisite: Animal Husbandry 10 and 11.

13. Beef Production.—Breeding beef cattle for market; combined beef and milk production; and fattening steers. Economic factors in cattle feeding; influence of age, grade, breed, condition, and sex. Shelter, feed lots, and equipment. Hogs and manure as by-products of beef production. Lectures, assigned readings, and a study of experimental work. *II; first half;* (2½). Mr. Hall.

Prerequisite: Animal Husbandry 21 and 8.

14. Management of Pure-Bred Herds, Flocks, and Studs.—Like Animal Husbandry 12, this course is intended for students anticipating the management or ownership of registered live stock. A study of the methods of the most successful breeders as to housing and management; the selecting and fitting of animals for sale and for the show ring; advertising and sale of surplus stock. Lectures and assigned readings. *II; second half;* (2½). Professor Mumford.

Prerequisite: Any one of the following Animal Husbandry courses: 1, 2, 12, 18 and 19.

15. Dairy Cattle.—(See Dairy Husbandry 2 and 17.)

16. Stable Management and Feeding of Horses.—Feeding and care of work horses and drivers at labor and at rest, and fattening horses for market. Stables, stable fixtures, harness, vehicles, and other equipment, and their care. Lectures and assigned readings. *I; first half;* (1½). Mr. Obrecht.

Prerequisite: Animal Husbandry 21.

17. Education and Driving of the Horse.—A critical study of the mental qualities, peculiarities, and limitations of the horse, together with the most successful methods of educating and training him for skillful work at labor or on the road. The rules and practices of correct driving, the responsibilities of the driver, and

the courtesies of the public highway. Lectures, readings, and practice. *.II; second half;* (2). Mr. OBRECHT.

Prerequisite: Animal Husbandry 5 and three semester's work in the University or its equivalent.

Only a limited number of students admitted to this course.

18 and 19. BREEDS OF LIGHT AND HEAVY HORSES.—Their history, development, and characteristics. Lectures, assigned readings, studbook work and tracing pedigrees, and practical work in judging. *I; first half;* (2½). Mr. OBRECHT.

Prerequisite: Animal Husbandry 5 or its equivalent.

21. ELEMENTARY STOCK FEEDING.—The animal body; its processes and requirements; digestion and utilization of food, and conditions affecting them. Feeding stuffs; their composition; their comparative value considered chemically, physiologically, and with reference to their fertilizing constituents. Feeding standards and the compounding of rations. Lectures, assigned readings, and recitations. *I; first half or I; second half;* (1½). Mr. HALL.

22. ADVANCED STOCK JUDGING.—A study of animal conformation with reference to market and show yard form, quality, and condition. A course intended to render the student expert in his judgment in the selection of horses, beef cattle, sheep and swine, for feed lot, market, and exhibition and to qualify him as a competent judge at live stock shows. *II; daily;* (3). Professor MUMFORD, Assistant Professor DIETRICH, Messrs. HALL, OBRECHT, COFFEY, ALLISON.

Prerequisite: Credits in Animal Husbandry 1, 2, 4, 5, 11, and 10 or 12, and three semesters' work in the University or its equivalent.

COURSES FOR GRADUATES

103. LIVE STOCK EXPERIMENTATION. — Objects, methods, and sources of error in experimental work dealing with the feeding, breeding, and management of farm animals. Detailed study of live stock experiments in progress at this Station, and a survey of past and present work in this line by the various experiment stations of the world. Professor MUMFORD.

104. MEAT.—Special investigations relating to the quality and amount of meat and by-products yielded by cattle, sheep, and swine under various conditions of feeding, breeding, and management, with reference to improvement in quality of such products. Mr. HALL.

105. The Classification, Production, and Marketing of Wool.—Laboratory work. Mr. Coffey.

106. Swine.—Type of swine as determined by environment, by feed, and by market demands. Assistant Professor Dietrich.

107. Dual Purpose Cattle.—Special investigations relative to history, development, characteristics, and economic importance of the breeds suitable for the production of beef and milk.

110. Animal Nutrition.—This course includes a thorough study of the chemical changes, reactions, and processes involved in the activities of animal life, namely, mastication, digestion, absorption, assimilation, disassimilation, respiration, circulation, secretion, and reproduction. Professors Grindley, Professor Hawk.

Prerequisite: 10 hours in Animal Husbandry and 30 hours in Chemistry.

111. Animal Nutrition.—Detailed studies of the physiology of muscle, nerve, blood, bone, and of the organs and products of secretion, digestion, and respiration. This course also includes metabolism experiments to determine the physiological requirements of the animal body, for the various nutrients of food-stuffs for maintenance, growth, fattening, and milk production. Professors Grindley, Professor Hawk.

Prerequisite: 10 hours in Animal Husbandry and 10 hours in Physiology.

112. Animal Nutrition.—Investigations in the field of bacteriology as related to Animal Husbandry, including studies of the microorganisms of fundamental importance to animal life and those of a pathological nature. This course also includes studies of the ferments, enzymes, toxins, and ptomaines occurring in healthy and pathological tissues and fluids of the animal body. Dr. MacNeal.

Prerequisite: 10 hours in Bacteriology and 20 hours in Chemistry.

113. The Animal Body in Health and Disease.—Research upon the parasitic bacteria and protozoa and their relation to the animal body in health and disease. Dr. MacNeal.

114. Meat Preservation.—Investigation of the bacteria related to the ripening and decomposition of animal food products with especial attention to the methods of meat preservation. Dr. MacNeal.

DAIRY HUSBANDRY

1. Milk.—The secretion, character, and composition of milk. Practice in testing with the Babcock test, the lactometer, and the different acid tests. Tests for the purity of milk and its adulteration. Lectures, reference readings and laboratory practice. *I; first half; I; second half;* (3). Assistant Professor Lee, Mr. Hepburn.

2. Dairy Cattle.—The principal characteristics of the cow, special attention being given to the dairy type. Improvement of the herd through testing of cows and details of conducting the test. The value of continued use of pure bred sires. Proper rearing of young stock for the dairy herd. Lectures, assigned readings, recitations, and practice in judging. *I; first half;* (2½). Mr. Coleman.

7. Factory Management.—This course is designed especially for creamery butter makers, factory cheese makers, and others wishing a more extended course in butter and cheese making than is offered in the other courses. It includes the study of special problems connected with the manufacture of butter and cheese; the management of creameries and cheese factories under private and co-operative ownership; locating, planning, building, equipping, and operating plants; creamery and cheese factory sanitation and products. Lectures, assigned readings, and laboratory work. *II; second half;* (3). Assistant Professor Lee, Mr. Hepburn.

Prerequisite: Dairy Husbandry 19.

8. City Milk Supply.—Proper methods of handling and preparing milk and cream for direct consumption; preventing contamination, pasteurizing, standardizing, modifying, bottling, transporting, and delivering. Certified milk; value of milk as a food. Milk commissions; legal requirements of cities and states. Lectures, reference readings, and laboratory practice. *II; second half;* (2½).

Prerequisite: Dairy Husbandry 1.

11. Dairy Bacteriology.—The relation of bacteria to the dairy industry, showing where and to what extent milk may become contaminated; how contamination may be largely avoided. The relation of bacteria to the changes that take place in milk; the effect of methods of handling and of temperature upon the bacterial content of milk. The part that bacteria play in the manufacture of butter and cheese. The course consists largely of laboratory work, lectures and assigned readings. *I; first half;* (2½).

Prerequisite: Dairy Husbandry 1 and Botany 12.

12. Investigation and Thesis.—Subject arranged with instructor. (5, 10). Professor Fraser, Assistant Professor Lee.

14. Cheddar Cheese.—Practice in ripening and setting milk; cutting, cooking, and dipping the curd; cheddaring, milling, maturing, and salting curds; pressing and curing cheese. *I; second half;* (3). Assistant Professor Lee, Mr. Hepburn.

Prerequisite: Dairy Husbandry 1.

15. Fancy Cheese.—The making and curing of different varieties, such as Swiss, Edam, Gouda, brick, cottage, etc. *II; second half;* (2½). Assistant Professor Lee, Mr. Hepburn.

Prerequisite: Dairy Husbandry 1.

16. Feeding and Care of the Herd.—Composition of feeding stuffs and their proper use. Compounding rations for dairy cows. Every member of the class is given practice in feeding. Arrangements and construction of dairy barns, silos, and yards. Housing and care of the herd. *I; second half;* (2½). Mr. Hayden.

17. Pure-Bred Herds.—This course includes the history of the dairy breeds, their characteristics, and adaptation to different climatic conditions and economical purposes. Importance of environment and food in securing and maintaining improvement in dairy cattle. A critical study of important families and the different breeds, giving particular attention to heredity. Selection of sires, weeding out and disposal of females, and surplus stock. Practice in scoring with the breed standards. Lectures, assigned readings, recitations. *II; second half;* (2½). Mr. Coleman.

Prerequisite: Dairy Husbandry 2.

19. Butter Making.—A study of the different systems of creaming milk and a comparison of different cream separators as regards efficiency under varying conditions; pasteurization; the use of different kinds of lactic ferments; ripening cream, churning; working; packing and scoring butter. *I; first half; II; first half;* (3). Assistant Professor Lee, Mr. Hepburn.

Prerequisite: Dairy Husbandry 1.

20. Comparative Dairying.—Dairying in different countries. The present condition of dairying in the United States, its magnitude and relation to other lines of farming. The influence of soil, climate, market conditions and location in determining special lines of dairy development. A study of experiment station literature. Lectures and assigned readings. *II; first half;* (3). Mr. Hayden.

Prerequisite: Two years of University work.

21. Economic Milk Production.—Difference in efficiency of individual cows showing the real relation of the cow and the herd to the profits derived from milk production. How to establish and perpetuate a dairy herd of the highest efficiency. A comparison of different rations for economic milk production. Crops to raise on a dairy farm and bearing this has on the economy of the ration. Organization of a dairy farm and a study of the whole conduct of the business of producing and disposing of milk at the greatest possible profit. *II;* (5). Professor Fraser.

Prerequisite: Dairy Husbandry 1, 2, 16.

COURSES FOR GRADUATES

101. A special study of differences in the efficiency of dairy cows, cause and effect of the same, and the relation this bears to successful dairy farming. Professor Fraser.

105. A study of the control of the water, salt and case in content of butter and the relation they bear to the marketable product. Assistant Professor Lee.

THREMMATOLOGY

FOR GRADUATES AND UNDERGRADUATES

1. The principles of evolution as applied to the improvement of domesticated animals and plants. Variation, its extent and causes. Relative stability and instability of living matter. Reflex action, habit, and instinct, as bearing upon the question of inheritance of acquired characters. The origin, correlation, and disappearance of characters. Transmission and the laws of heredity as developed by the statistical method of study. Power of selection to modify type. *II;* (5). Professor Davenport.

Prerequisite: Two years of University work, including ten credits in biology.

2. Investigation and Thesis.—*I, or II;* (5). Professor Davenport.

VETERINARY SCIENCE

2. Veterinary Materia Medica.—This subject, which treats of the agents for the cure of disease or injury, and for the preservation of health among domestic animals, is taught by lectures and text-books, illustrated by specimens of the drugs used in veterinary practice. The compounding of medicines also receives attention.

Text-book, *Finlay Dun's Veterinary Materia Medica. I, II;* (5). Professor McIntosh.

Anatomy, Physiology and Diseases of the Domestic Animals. —The subjects taught during the second semester are the outlines of veterinary anatomy, physiology and diseases of the digestive organs, respiratory organs, the organs of circulation, the lymphatic system, the urinary organs, the skin, tumors and the nervous system. *I;* (5). Professor McIntosh.

5. Anatomy, Physiology and Diseases of the Domestic Animal.—The subjects taught during the second semester are the anatomy, physiology and diseases of the bones and joints, feet, wounds, eye, and generative system. Epizootic and contagious diseases, catarrhal fevers, pyemia, septicemia, rheumatism, tuberculosis, fistula, poll-evil and the internal parasites of the domestic animals. *II;* (5). Professor McIntosh.

6. Clinic.—*I;* (1). Professor McIntosh.

AGRICULTURAL EXTENSION

The department of agricultural extension offers courses of study in the teaching of agriculture in the secondary schools and in the discussion of agriculture at farmers' institutes and other public gatherings.

1. Principles and Methods of High School Agriculture.— This course, designed for students who have had not less than two years' work in agriculture, will be devoted mainly to considering what features of agricultural science are best adapted to high school conditions, the best order and methods for their presentation, how to suit the course and instruction to the special interests and needs of each school community, what laboratory work shall be given, what apparatus may be used, what field experiments can be planned and executed. *I, II;* (5). Mr. Barto.

2. Elementary Agriculture.—This course is for those students who are preparing to teach in secondary schools, especially for teachers of science, but who have had no work in agriculture.

A study of the soil, its origin, nature, functions, properties, and classification; problems of temperature, aeration, control of moisture; enrichment and impoverishment of the soil; the plant, how it feeds and grows, its modes of reproduction, factors in crop production, rotation, value and use of legumes, selection and testing

of seed, their types and breeds, care and management; dairying, production of milk, testing and care of milk; farm plans, farm machinery; economics of agriculture. *I, II;* (5). Mr. Barto.

3. Farmers' Institute Management.—A study of the Farmers' Institute as a factor in our system of public education. This course is designed to set forth principles underlying the organization and conduct of Farmers' Institutes and agricultural associations and to systemize into definite lines the knowledge acquired in college to the end that the student may render more distinct service in institute and agricultural associations. Lectures: assigned readings, and parliamentary practice. *II; second half;* (1). Superintendent Rankin.

LIBRARY SCIENCE

1. Elementary Library Economy.—Instruction follows the regular library routine, including Trade bibliography, Order, Accession, Classification, Book numbers, Shelf records, Binding, and Cataloging. The course consists of lectures and problems. Following the instruction in cataloging one month is devoted to cataloging books for the University library. *I, II;* (5). Assistant Professor Price.

2. Elementary Reference.—The aim of this course is to train students in methods of research and to familiarize them with the principal reference books, such as indexes, dictionaries, encyclopedias, atlases, hand-books of general information, quotations, statistics, etc. Reference lists are prepared for special classes and for literary societies, and the students have practical work in the reference department of the library. *I, II;* (3). Assistant Professor Simpson.

3. Selections of Books.—Lectures are given upon the method of selecting books for libraries of different types and sizes, followed by class discussions of books which may be considered as representative of various classes. The course also includes instruction and practice in writing annotations for catalog cards, bulletins and reading lists. *I, II;* (2). Assistant Professor Price.

4. Elementary Laboratory Course.—The purpose of this course is to familiarize the students with the minor work of a library and to teach them to make and to use the records in the University library. Practical work in the various departments of the library

is assigned to each student as soon as possible after the work has been studied in other courses. One hour each week is devoted to a report from the class of the work done the previous week, thus giving the entire class the benefit of the experience of each member. *I, II;* (3). Miss Swezey.

Prerequisite: Library 1, 2.

5. Advanced Library Economy.—Advanced and comparative cataloging and classification. Problems in organizing and reorganizing libraries. The class discusses questions affecting the founding and government of libraries, library legislation, library architecture, library administration, and current problems in public and college library work. Visits are made to Chicago libraries. This course includes one hour of Library 14. *I, II;* (5). Professor Wilson.

Prerequisite: Library 4.

6. Bibliography.—Lectures by professors from various departments, on the principles underlying selection of books. These lectures are supplemented with class work and problems. *I, II;* (4). Various instructors.

7. History of Libraries.—The history of the leading ancient, mediæval, and modern libraries. The library movement in the United States. Libraries are studied by types and by countries, with particular attention to the relation between the social, intellectual, and political movements in each country and the growth of libraries. This course is supplemented with Library 14 in a study of library reports and other publications. *I;* (2). Assistant Professor Simpson.

8. Advanced Reference.—Advanced reference books, including important transactions of societies, periodicals, special indexes, and other publications of special value in reference work in a university library. Reports on current events. Emphasis is laid upon problems in difficult research work. This course is intended primarily for students who are preparing for college library positions, but may be elected by any one who has satisfactorily completed Elementary Reference. *I;* (2). Assistant Professor Simpson.

Prerequisite: Library 2.

9. Book-Making.—A brief history of writing, of the early forms of books, of the invention and spread of printing, of book illustration, and of the art and practice of binding. *II;* (2). Professor Wilson.

10. Advanced Laboratory Course.—This course consists of two hours' work daily in the various departments of the University library, giving the students practical experience in all lines of library work. One hour each week is devoted to reports of the work done the previous week, so that each student has the benefit of the experience of the others. *I, II;* (5). Miss Curtis.

Prerequisite: Library 4.

12. General Reference.—This course is offered to all students. It comprises lectures on the catalog, classification, the reference-room, the reading-room, and groups of books, such as indexes, dictionaries, encyclopedias, atlases, hand-books of general information, hand-books of history, statistics, quotations, etc. *I;* (2). Miss Forrest.

13. Public Documents.—A study of the formation of the government as expressed in its publications, the methods of printing and distributing the federal documents, and a study of these documents and their various indexes for their value as reference books and for correct methods of cataloging. Practical reference questions are given, and a sample catalog is made illustrating the various principles. The course is continued in the second semester as an elective, when some of the more important state documents are also studied. *I, II;* (2).

Prerequisite: Library 1, 2.

14. Library Extension.—Fourth and fifth year students meet together once a week to examine library publications and to consider them in their relation to library history, biography, and administration. Once a week the fourth year students alone meet to discuss such topics as library associations, library schools, library commissions, traveling libraries, home libraries, and principles underlying the relation of the library to the public. *I, II;* (2). Professor Wilson.

15. Seminary in Library Economy.—This course takes the place of the thesis formerly required. Library economy publications are studied and practice is given in research work. *I, II;* (2). Professor Wilson.

LAW

1. Contracts.—*Huffcut & Woodruff's Cases, Anson on Contracts* and *selected Illinois cases. I,* (3); *II,* (3). Professor Gilbert.

2. Torts.—*Ames & Smith's Cases.* I, (2); *II*, (2). Professor Clark.

3. Real Property.—*Gray's Cases, (Vols. I and II.) I*, (2); *II*, (3). Associate Professor Northrup.

4. Common Law Pleading.—*Andrews' Stevens Pleading. II;* (2). Professor Harker.

5. Criminal Law.—*Knowlton's Cases. I;* (3). Professor Hughes.

6. Personal Property.—*Gray's Cases, (Vol. I.) I;* (2). Mr. McGovney.

7. Domestic Relations.—*Smith's Cases on the Law of Persons. II*, (2). Professor Green.

8. Evidence.—*Thayer's Cases. I*, (4). Professor Hughes.

9. Sales.—*Williston's Cases. II;* (3). Professor Clark.

10. Real Property.—*Gray's Cases, (Vol. III.) I*, (2). Associate Professor Northrup.

11. Agency.—*Wambaugh's Cases. II;* (3). Professor Green.

12. Equity.—*Scott's Cases. I*, (4); *II*, (2). Professor Gilbert.

13. Damages.—*Beale's Cases. I;* (2). Associate Professor Northrup.

14. Bailments and Carriers.—*McClain's Cases. I*, (2). Professor Green.

15. Bills and Notes.—*Huffcut's Cases. II;* (2). Professor Gilbert.

16. Trusts.—*Ames's Cases. I*, (3). Professor Clark.

17. Private Corporations.—*Smith's Cases. I*, (2); *II*, (2). Mr. McGovney.

18. Wills and Administration.—*Gray's Cases, (Vol. IV.) II*, (2). Associate Professor Northrup.

19. Partnership.—*Ames's Cases. II*, (2). Professor Hughes.

20. Equity Pleading.—*Shipman on Equity Pleading. II;* (2). Professor Harker.

21. Suretyship.—*Ames' Cases. I;* (3). Professor Clark.

22. Constitutional Law.—*McClain's Cases. I;* (4). Professor Green.

23. Mortgages.—*Kirchwey's Cases. II;* (2). Mr. McGovney.

24. Municipal Corporations.—*Abbott's Cases. II;* (2) Mr. McGovney.

25. Bankruptcy.—*Williston's Cases. II;* (2). Associate Professor Northrup.

26. Moot Court.—Civil Procedure. *I,* (2); *II,* (2). Professor Harker.

Moot Court.—Criminal Procedure. *I;* (2). Professor Hughes.

27. Insurance.—*Wambaugh's Cases. II;* (2). Professor Green.

29. Admiralty.—*Ames's Cases on Admiralty.* (Not given in 1907-8.)

31. Conflict of Laws.—*Beale's Cases. II;* (2). Professor Clark.

32. Quasi-Contracts.—*Woodruff's Cases. I;* (2). Mr. McGovney.

B. Commercial Law.—The work of the first semester covers the chief principles underlying the law of contracts in general, negotiable instruments and agency. That of the second semester covers the chief principles underlying the law of partnerships, business corporations, sales of personal property, bailments and carriers, guaranty and suretyship, insurance and real estate. *Spencer's Elements of Commercial Law. I, II;* (3). Professor Hughes.

This course is not a technical law course; is intended for students of commerce, etc., and may not be counted toward the law degree.

MILITARY SCIENCE

*1. Theoretical Instruction.—Infantry drill regulations. For all male students. *II;* (1).

*2. Practical Instruction.—Infantry.—School of the soldier; company and battalion; regimental ceremonies. Artillery.—School of the cannoneer and battery dismounted. Freshman and sophomore years. *I, II;* (1). Professor Fechet.

*3. Theoretical Instruction.—Sophomores. Drill regulations and military administration. *I, II;* (1). Juniors. Field service

*Freshmen and sophomores are required to drill one and one-half hours each week until March 15; after that date, three hours each week. Freshmen attend recitations one hour a week in second semester. Assignments to classes and companies are made by the Commandant of Cadets according to circumstances.

regulations. *I;* (1). Seniors. Field engineering. *I, II;* (1). This course is obligatory upon commissioned officers and sergeants, optional with corporals, and open to others. Professor FECHET.

AUTHORIZED TEXT-BOOKS.—United States Drill Regulations; United States Army Regulations; Manual of Field Engineering (Beach); Field Service Regulations, United States Army.

PHYSICAL TRAINING

FOR MEN

1. GYMNASIUM PRACTICE.—Two hours' class work, calisthenic drills and heavy apparatus work, each week. *Required of freshmen. Must be taken with course 3. I, II; arrange time;* (½). Mr. HANA.

2. GYMNASIUM PRACTICE.—Three hours each week in advanced heavy apparatus work. *I, II; arrange time;* (1). Mr. HANA.

Prerequisite: Physical Training 1 and 3.

3. LECTURES UPON PERSONAL HYGIENE.—Once a week. *I, II; arrange time* (½). Mr. HANA.

FOR WOMEN

7. PRACTICE.—Class exercise in the gymnasium and field. Required of Freshmen. *I, II;* (1). Mrs. LINCOLN, Miss MOULTON, Miss WILLIAMS.

8. Second Year.—Elective. *I, II;* (1). Mrs. LINCOLN, Miss MOULTON, Miss WILLIAMS.

Prerequisite: Physical Training 7, 9.

9. HYGIENE.—The same as Physiology 6, which see. Required of all freshmen. *I;* (1). Medical, Professor KEMP; Personal, Mrs. LINCOLN.

10. TEACHERS' COURSE.—Third year. *I, II;* (1). Mrs. LINCOLN, Miss MOULTON.

Prerequisite: Physical Training 7, 8, 9.

PART IV

AUXILIARY SCIENTIFIC BUREAUS

AUXILIARY SCIENTIFIC BUREAUS

THE AGRICULTURAL EXPERIMENT STATION

STAFF

EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT

EUGENE DAVENPORT, M. Agr., LL.D., Director.
CYRIL GEORGE HOPKINS, Ph.D., Vice-President.
THOMAS JONATHAN BURRILL, Ph.D., LL.D., Botanist.
STEPHEN ALFRED FORBES, Ph.D., Consulting Entomologist.
DONALD MCINTOSH, V.S., Consulting Veterinarian.
HENRY LEWIS RIETZ, PH.D., Statistican.
CATHERINE MCCALLUM MCINTYRE, Secretary.

Agronomy—

CYRIL GEORGE HOPKINS, Ph.D., Professor and Chief.
LOUIE HENRIE SMITH, Ph.D., Assistant Chief, Plant Breeding.
JEREMIAH GEORGE MOSIER, B.S., Assistant Chief, Soil Physics.
JAMES HARVEY PETTIT, Ph.B., Assistant Chief, Soil Fertility (on leave.)
ALBERT NASH HUME, M.S., Associate Crop Production.
CLIFFORD WILLIS, M.S., First Assistant, Soil Physics.
ORLO DORR CENTER, B.S., First Assistant, Crop Production.
JEROME EDWARD READHIMER, B.S., Superintendent, Soil Experiment Fields.
WILLIAM GEORGE ECKHARDT, B.S., Assistant, Soil Fertility.
LEONARD HEGNAUER, B.S., Assistant, Crops.
ARTHUR WYNNS GREGORY, B.S., Assistant, Chemistry.
CHARLES HUBERT OATHOUT, B.S., Assistant, Soil Fertility.
AXEL FERDINAND GUSTAFSON, B.S., Assistant, Soil Physics.
ERNEST VAN ALSTINE, B.S., Assistant, Chemistry.

Animal Husbandry—

HERBERT WINDSOR MUMFORD, B.S., Professor and Chief.
HARRY SANDS GRINDLEY, Sc.D., Chief, Animal Chemistry.

William Dietrich, M.S.A., Assistant Chief, Swine Husbandry.
Philip Bovier Hawk, Ph.D., Assistant Chief, Physiological Chemistry.
Ward J. MacNeal, Ph.D., Assistant Chief, Bacteriology.
Louis Dixon Hall, M.S., Associate, Animal Husbandry.
Rufus Chauncey Obrecht, M.S., Associate, Horse Husbandry.
Walter Castella Coffey, B.S., Associate, Sheep Husbandry.
Harry Orson Allison, B.S., Assistant, Animal Husbandry.
Frederic William Gill, B.S., First Analyst, Physiological Chemistry.
Thomas Arthur Rutherford, M.S., M.D., Research Assistant, Physiological Chemistry.
William S. Chapin, A.B., M.D., Clinical Assistant, Physiological Chemistry.
Paul Edward Howe, A.M., Assistant Analyst, Physiological Chemistry.
Harold Hanson Mitchell, Assistant Analyst, Physiological Chemistry.
John Bernard Peterson, Assistant Analyst, Physiological Chemistry.
Arthur Donaldson Emmett, A.M., Research Assistant, Animal Chemistry.
Leonore Latzer, M.S., Research Assistant, Bacteriology.
Josephine Ellrod Kerr, B.S., Assistant, Bacteriology.

Dairy Husbandry—

Wilber John Fraser, M.S., Professor and Chief.
Carl Emil Lee, B.S., Assistant Chief, Dairy Manufactures.
Cassius Clay Hayden, B.S., Associate, Dairy Husbandry.
Jesse Melangthon Barnhart, B.S., Assistant Chemist, Dairy Husbandry.
Clyde Bestor Coleman, B.S., Assistant, Dairy Husbandry.
Nelson William Hepburn, B.S., Assistant, Dairy Manufactures.

Horticulture—

Joseph Cullen Blair, M.S.A., Professor and Chief.
Charles Spencer Crandall, M.S., Chief, Plant Breeding.
John William Lloyd, M.S.A., Assistant Chief, Olericulture.
Alvin Casey Beal, M.S.A., First Assistant, Floriculture.
Bethel Stewart Pickett, M.S., First Assistant, Pomology.

Ralph Barnard Howe, B.S., Assistant, Pomology.
Oscar S. Watkins, B.S., Assistant Chemist, Horticulture.

Botany—

Thomas Jonathan Burrill, Ph.D., LL.D., Chief.
James Theophilus Barrett, A.M., Assistant, Botany.

By an act approved March 2, 1887, the national government appropriated $15,000 per annum to each state for the purpose of establishing and maintaining, in connection with the colleges founded upon the congressional act of 1862, agricultural experiment stations, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." Under this provision the *Agricultural Experiment Station* for Illinois was founded in 1888 and placed under the direction of the Trustees of the University, and a part of the University farm, with buildings, was assigned for its use.

The Federal grants to the Station have been liberally supplemented with state appropriations, until its revenues have become the largest of those of similar institutions throughout the world.

Investigations are conducted in the growing and marketing of orchard fruits, the methods of production of meats and of dairy goods, the principles of animal breeding and nutrition, and in the improvement and the economic production of crops. All the principal types of soil of the state are being studied in the laboratory under glass and in the field. A soil survey is in progress which when finished will map and describe the soil of every farm of the state down to an area of ten acres. Twenty to thirty fields and orchards are rented in various portions of the state for the study of local problems, and assistants are constantly on the road for the conduct of experiments or to give instruction to producer or consumer. The results of investigation are published in bulletins, which are issued in editions of 50,000, and distributed free of charge.

Much of this work is of exceptional interest to students, especially of graduate grade, and it is freely available for this purpose, so far as is consistent with the interests of the Station.

ENGINEERING EXPERIMENT STATION

Staff

Edmund Janes James, Ph.D., LL.D., President.

Lester Paige Breckenridge, Director.

Roy Weaver Rutt, B.S., Assistant to the Director.

Elizabeth A. Swift, Secretary.

The heads of the departments in the College of Engineering.[1]

Special Investigators

Herbert Fisher Moore, M.M.E., Assistant Professor in the department of Theoretical and Applied Mechanics.

John McBeath Snodgrass, B.S., Assistant Professor in the department of Mechanical Engineering.

Duff Andrew Abrams, B.S., Associate in the department of Theoretical and Applied Mechanics.

Thomas Hamer Amrine, B.S., First Assistant in the department of Electrical Engineering.

Ward Reid Robinson, B.S., First Assistant in the department of Theoretical and Applied Mechanics.

Franklin Wales Marquis, B.S., First Assistant in the department of Railway Engineering.

Frank Lyman Busey, M.E., First Assistant in the department of Mechanical Engineering.

Allen Burton Cooke, B.S., Assistant in the department of Mechanical Engineering.

Research Fellows

Clarence Eugene Noerenberg, B.S., Architecture.
Willard Leo Egy, B.S., Physics.
Charles Kenworthy Francis, A.M., Chemistry.
Wilbur Clinton Maddox, B.S., Electrical Engineering.

The Engineering Experiment Station was established by action of the Board of Trustees, December 8, 1903. Its purposes

[1] For the names of these heads of departments, see Faculty of the College of Engineering, pp. 115 ff.

are the stimulation and elevation of engineering education, and the study of problems of special importance to professional engineers and to the manufacturing, railway, mining, and industrial interests of the State and the country. Additional apparatus and equipment have been purchased and installed in the laboratories of the College of Engineering to further such research work. The practical nature of the investigations and their adaptation to present-day needs are assured by means of conference with committees of the leaders of the State's industrial activities.

The control of the Station is vested in the heads of the several departments of the College of Engineering. These constitute the Station Staff, and, with the Director, determine the character and extent of the investigations to be undertaken.

Up to the present time, nineteen bulletins, of value to engineering science, have been published. The experiments have related chiefly to tests of concrete, reinforced concrete beams and columns, tests of high-speed tool steels, the resistance of tubes to collapse, fuel tests, the holding power of railroad spikes, effect of scale on heat transmission, a study of roof trusses and stresses in chain links.

STATE LABORATORY OF NATURAL HISTORY

EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT

STAFF

Professor STEPHEN ALFRED FORBES, Ph.D., LL.D., Director.

CHARLES ARTHUR HART, Systematic Entomologist.

MARY JANE SNYDER, Secretary.

FRANK ELMER WOOD, A.B., Assistant in Biological Survey.

GRACE OSGOOD KELLEY, B.L.S., Librarian.

In 1885 the legislature passed a bill transferring the *State Laboratory of Natural History* from the Illinois State Normal University to the University of Illinois. This laboratory was created for the purpose of making a natural history survey of the state, the results of which should be published in a series of bulletins and reports, and for the allied purpose of furnishing specimens illustrative of the flora and fauna of the state to the public schools and to the state museum. For these purposes direct appropriations are made by the legislature from session to session. A large amount of material has been collected, and extended publications have been made in both the forms above mentioned.

THE STATE ENTOMOLOGIST'S OFFICE

EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT

STAFF

STEPHEN ALFRED FORBES, Ph.D., LL.D., State Entomologist.

CHARLES ARTHUR HART, Systematic Entomologist.

JAMES ALEXANDER WEST, A.M., Chief Horticultural Inspector, and Field Assistant.

HAROLD EDWARD HODGKISS, B.S., Field Assistant.

LINDLEY M. SMITH, B.S., Field Assistant.

JOHN JUNE DAVIS, B.S., Field Assistant.

ALECANDRÉ ARSÉNE GIRAULT, B.S., Insectary Assistant.

WESLEY PILLSBURY FLINT, Manager of Insecticide Operations.

ERNEST HARLEN SCOTT, Stenographer.

The work of the State Entomologist's Office has been done at the University of Illinois since January, 1885; and by legislative enactment in 1899 it was permanently established at the University, the Trustees of which are required by that act to provide for the Entomologist and his assistants such office and laboratory rooms as may be necessary to the performance of their duties.

It is the duty of this officer to investigate all insects dangerous to any valuable property or dangerous to the public health, and to conduct experiments for the control of injuries to person or property by insects, publishing the results of his researches biennially in his official report. He is also required to inspect and certify annually all Illinois nurseries, and to maintain a general supervision of the horticultural property of the State as respects its infestation by dangerous insects and its infection with contagious plant disease.

Twenty-three reports have now been published by the Entomologist, ten of them since the transfer of his office to the University.

STATE WATER SURVEY

EDMUND JANES JAMES, PH.D., LL.D., PRESIDENT

STAFF

EDWARD BARTOW, Ph.D., Director.

THOMAS J. BURRILL, Ph.D., LL.D., Consulting Bacteriologist.

SAMUEL WILSON PARR, M.S., Consulting Chemist.

ARTHUR NEWELL TALBOT, C.E., Consulting Engineer.

LEWIS ISAAC BIRDSALL, A.B., Assistant Chemist.

FRANK BACHMANN, Acting Bacteriologist.

STANLEY ELMER TARGETT, Acting Bacteriologist.

*WALTER DENNIS COLLINS, A.B., Chemist.

†CECIL K. CALVERT, Assistant Chemist.

ANDREW CLIFFORD WILKINS, Clerk.

The Chemical Survey of the waters of the State was begun in the latter part of September, 1895. In June, 1897, the Legislature authorized the continuance of the work and directed the Trustees of the University to establish a chemical and biological survey of the waters of the State. The purpose of the Survey is to collect facts and data concerning the water supplies of the State; to make such chemical and biological examination and analyses as shall serve to demonstrate their sanitary condition; to determine standards of purity of drinking waters for the various sections of the State, and to publish the results of these investigations.

The Survey is a division of the department of chemistry of the University of Illinois, and special laboratories are equipped in the Chemical Laboratory for conducting the work.

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†To December 31, 1907.
*Field Assistants, United States Geological Survey.

STATE GEOLOGICAL SURVEY

Commission

GOVERNOR C. S. DENEEN, Chairman.
PROFESSOR T. C. CHAMBERLAIN, Vice-Chairman.
PRESIDENT E. J. JAMES, Secretary.

STAFF

H. FOSTER BAIN, Director.
F. W. DEWOLF, Assistant State Geologist.
EDWARD BARTOW, Consulting Chemist in Water Analysis.
U. S. GRANT, Consulting Geologist in Lead and Zinc Work.
SAMUEL WILSON PARR, Consulting Chemist in Coal Investigations.
CHARLES WESLEY ROLFE, Consulting Geologist in Clay Investigations.
R. D. SALISBURY, Consulting Geologist in Preparation of Educational Series.
T. E. SAVAGE, Geologist.
STUART WELLER, Geologist.
J. A. UDDEN, Geologist.
E. F. LINES, Assistant Geologist.
T. E. FLETCHER, Resident Engineer.
E. W. MCCRARY, Assistant Engineer.
LEE MORRISON, Assistant Engineer.
S. K. ATKINSON.
W. F. WHEELER, Assistant Chemist.
G. M. WOOD, Clerk.

The Forty-fourth General Assembly passed an act, in force July 1, 1905, providing for the establishment at the University of Illinois of a Bureau, to be known as the *State Geological Survey*. The Bureau is under the control of a commission, of which the President of the University is an *ex-officio* member. The purpose of the Survey is primarily the study and exploration of the mineral resources of Illinois. Field parties are organized for the investigation of oil, clay, coal, stone, artesian water, cement materials, road materials, and for general scientific investigations. The Bureau is charged also with the duty of making a complete topographical and geological survey of the State. The topographical surveys are now being carried on in connection with the United States Geological Survey.

These will lead to the publication of a series of bulletins and of maps, eventually covering the entire State. The Forty-fifth General Assembly further charged the commission with the duty of making surveys and studies of lands subject to overflow with a view to their reclamation. Work is now being carried on in co-operation with the Internal Improvement Commission, the United States Geological Survey, and the United States Department of Agriculture, along the Sangamon, Kaskaskia, Big Muddy, Wabash, and Embarrass rivers. The laboratory work is done in connection with various department laboratories of the University. The equipment includes a working library, maps, and a rapidly growing collection, illustrating the geological and the economical resources of the State.

PART V

LISTS OF STUDENTS, ETC.

LIST OF STUDENTS

LITERARY, TECHNOLOGICAL, SCIENTIFIC, AND AGRICULTURAL DEPARTMENTS

GRADUATE SCHOOL

Abrams, Duff Andrew, B.S., 1905, *Murphysboro,* Civil Engineering.
Allinson, May, A.B., 1906, *Champaign,* History.
Allison, Fred Gray, B.S., 1906, *Alpha,* Physiological Chemistry.
Allison, Harry Orson, B.S., 1906, *Alpha,* Economics.
Amrine, Thomas Hamer, B.S., 1906, *Vermont,* Electrical Engineering.
Armeling, Carl Elmer, A.B., 1904, *Mason City,* Latin.
[1]Anders, Edwin, B.S., 1905, *Newark,* Sociology.
[1]Archer, Arthur Ward, B.S., 1907, *Little Rock, Ark.,* Architecture.
[1]Armstrong, Charles Edward, B.S., 1905, *Danville,* Electrical Engineering.
[1]Baker, Howard Newell, A.B., 1907, M.D., (*Hahnemann Medical Coll.*), 1905, *Homer,* Psychology.
Baxter, Miles Emile, B.S., 1906, *Nauvoo,* Mechanical Engineering.
Beard, Abner Hamilton, B.C.E., (*Univ. of Arkansas*), 1905, *Wynne, Ark.,* Municipal and Sanitary Engineering.
Bench, Albert Rittscher, B.S., 1906, *Galena,* Mechanical Engineering.
Bennett, Elizabeth Ruth, A.B., 1903, (*Ohio Univ.*), *E. Stroudsburg, Pa.,* Mathematics.
Birdsall, Lewis Isaac, A.B., (*Williams Coll.*), 1907, *Patterson, N. Y.,* Chemistry.
Blaisdell, Daisy Luana, A.M., (*Smith Coll.*), 1893, *Chicopee Falls, Mass.,* German.
Bradford, Bernice Margaret, A.B., (*Univ. of Mich.*), 1907, *Sycamore,* German.
Briscoe, Charles Francis, A.B., (*Indiana Univ.*), 1899, A.M., 1905, *Urbana,* Botany.
Brownson, Howard Gray, A.B., 1906, *Centralia,* Economics.

[1]In absentia.

[1]Buchanan, John Lee, B.S., 1904, *Schenectady, N. Y.,* Electrical Engineering.

[1]Bullard, Benjamin Franklin, B.L., 1882, *Chicago,* History.

Burlison, William Leonidas, B.S., (*Okla. A. & M. Coll.*), 1905, *Stillwater, Okla.,* Agronomy.

Busey, Marietta Ruth, A.B., (*Vassar Coll.*), 1899, *Urbana,* Psychology.

Carman, Mrs. Maude Wheeler Straight, A.B., (*Wellsley Coll.*), 1892, *Urbana,* History.

[1]Carr, Maurice LeRoy, B.S., 1905, *Avon,* Electrical Engineering.

Carscallen, George Ernest, A.B., (*Wabash Coll.*), 1906, *Frankfort, Ind.,* Mathematics.

Carter, Clarence Edwin, A.M., (*Univ. of Wis.*), 1906, *Urbana,* History.

Center, Orlo Dorr, B.S., 1905, *Champaign,* Agronomy.

Chiles, James Alburn, A.M., (*Vanderbilt Univ.*), 1898, LL.B., (*Berlin Univ.*), 1904, *Urbana,* German.

Clark, Samuel, C, B.S., (*Univ. of Chicago*), 1900, *Urbana,* Chemistry.

Clark, Vinton Albert, M.S., (*Univ. of Vermont*), 1904, *Champaign,* Philosophy.

Coffey, Walter Castella, B.S., 1906, *Urbana,* Animal Husbandry.

[1]Craig, Stephen James, B.S., 1906, *Wilmington,* Agronomy.

[1]Cresap, Ernest Wilfred, A.B., 1904, *Coshocton, O.,* English.

Crosthwait, George Ashley, B.S., 1903, *Urbana,* Botany.

Dancey, Lloyd Slote, A.B., 1907, *Fairbury,* Physics.

Davis, Grant Train, A.B., (*Univ. of Mich.*), 1903, *Urbana,* Chemistry.

[1]Davis, John Wolfersperger, B.S., 1904, *Chicago,* Civil Engineering.

Day, Anna Edith, A.B., (*Illinois Coll.*), 1907, *Jacksonville,* Classics.

DeMotte, Ruby Thorne, A.M., 1906, *Urbana,* Botany.

Denton, William Wells, A.B., (*Univ. of Mich.*), 1907, *Detroit, Mich.,* Mathematics.

Dick, Carl Rankin, B.S., 1907, *Bloomington,* Architectural Engineering.

Dunipace, Joseph Evans, A.B., (*Oberlin Coll.*), 1905, A.M., (*Leland Stanford Junior Univ.*), 1906, *Toledo, O.,* Chemistry.

Dunkin, William Van, B.S., 1903, *Urbana,* Mechanical Engineering.

Drew, Rosa Sophia, A.B., (*Iowa Coll.*), 1907, *Grinnell, Ia.,* Botany.

Eckhardt, William George, B.S., 1905, *Buffalo Prairie,* Chemistry.

[1]In absentia.

[1]Eddy, Clarence Leroy, B.S., 1900, *Weldon, Ia.*, Civil Engineering.
Egy, Willard Leo, B.S., 1907, *Urbana*, Physics.
Emmett, Arthur Donaldson, A.M., 1905, *Kansas City, Mo.*, Animal Chemistry.
Emmons, Clyde Wilbur, A.B., (*Albion Coll.*), 1903, *Champaign*, Mathematics.
Engstrom, Roy Victor, B.S., 1904, *St. Paul, Minn.*, Civil Engineering.
Ernest, Thomas Reuben, A.B., 1907, *Swanwick*, Chemistry.
Ewing, Henry Ellsworth A.B., 1906, *Arcola*, Entomology.
Farwell, Stanley Prince, B. S., 1907, *Oklahoma City, Okla.*, Electrical Engineering.
Fawcett, Mrs. Mary Eliza, A.B., (*Ohio State Univ.*), *Columbus, O.*, English.
[1]Fiske, Clarence Wilson, B.S., 1903, *Moline*, Mechanical Engineering.
Flint, Percy Wightman, B.S., (*College of Charleston*), 1904, *Charleston, S. C.*, Chemistry.
Forbes, Ethel Clara Schumann, A.B., 1903, *Urbana*, French.
Forsyth, Chester Hume, A.B., (*Butler Coll.*), *Trafalgar, Ind.*, Mathematics.
Francis Charles Kenworthy, A.M., (*Brown Univ.*), 1904, *Urbana*, Applied Chemistry.
[1]Fucik, Edward James, B.S., 1901, *Chicago*, Civil Engineering.
Garlough, Carlton D, A.M., (*Hillsdale Coll.*), 1900, *Stanford*, Mathematics.
[1]Gaston, Newton David, B.S., 1904, *Moline*, Mechanical Engineering.
[1]Gay, Mary Louise, A.B., 1906, *Rockport*, Modern Languages.
Gernert, Walter Byron, B.S., (*Kansas State Agri. Coll.*), 1907, *McPherson, Kan.*, Agriculture.
Gibbs, Charlotte Mitchell, A.B., 1904, *Champaign*, Household Science.
Gilbert, John Philo, A.B., 1905, *Urbana*, Entomology.
Gill, Frederic Williams, B.S., 1906, *Urbana*, Animal Chemistry.
Godeke, Harry Frederick, B.S., 1905, *Olney*, Mechanical Engineering.
Goff, Mary Emma, A.B., 1902, *Champaign*, English.
Gore, Adolph, A.B., 1905, *Marion*, Political Science.
Greaves, Joseph Eames B.S., (*Utah Agri. Coll.*), 1904, *Logan, Utah*, Agronomy.
Greene, Elizabeth Grosvenor, A.B., 1904, B.L.S., 1905, *Champaign*, Philosophy.
Gustafson, Azel Ferdinand, B.S., 1907, *Aledo*, Botany.
[1]Gutmann, Ludwig, B.S., 1904, *St. Louis, Mo.*, Electrical Engineering.
Hachmeister, Henry William, B.S., 1906, *Chicago*, Chemistry.

[1]In absentia.

Hammond, James Weston, B.S., (*Ohio State Univ.*), 1906, *Urbana,* Animal Husbandry.

Harbarger, Sada Annis, A.B., (*Ohio State Univ.*), 1906, *Columbus, O.,* English.

[1]Harmon, Ivan Guy, B.S., 1907, *Effingham,* Civil Engineering.

Harrison, Bruce Magill, B.S., (*Ottawa Univ.*), 1905, *Ottawa, Kan.,* Zoology.

Hayden, Cassius Clay, B.S., (*Ohio State Univ.*), 1903, *Urbana,* Dairy Husbandry.

Hellmann, Carl August, B.S., 1906, *Chicago,* Electrical Engineering.

Henninger, Carl, A.B., (*Univ. of Indiana*), 1907, *Indianapolis, Ind.,* Modern Languages.

Hill, Alva Jay, A.B., (*Ohio State Univ.*), 1906, Urbana, Economics.

[1]Hillman, Frank William, B.S., 1905, *Chicago,* Civil Engineering.

Hilmer, William Charles, A.M., (*German Wallace Coll.*), 1903, *Urbana,* German.

[1]Hines, Edward George, B.S., 1900, *New Orleans, La.,* Reinforced Concrete.

Hinds, Sherwood, B.S., (*Mich. Agri. Coll.*), 1905, *Stanton, Mich.,* Mathematics.

Hoff, Hans Jacob, A.B, (*Bethany Univ.*), 1901, *Rexford, Kan.,* Modern Languages.

Hoke, Charles Edward, B.S., (*Okla. Agri. and Mech. Coll.*), 1907, *Quay, Okla.,* Agronomy.

Homberger, Alfred Wilhelm, A.B., (*Univ. of Wis.*), 1905, *Sauk City, Wis.,* Chemistry.

[1]Hoppin, Charles Albert, B.S., 1901, *Milwaukee, Wis.,* Mechanical Engineering.

Howe, Paul Edward, A.B., 1906, *Urbana,* Chemistry.

[1]Howell, Leslie Dillon, B.S., 1907, *Ipava,* Architecture.

Hummel, Adam Albert, B.S., 1907, *Urbana,* Botany.

Hummel, Sarah Matilda A.B., 1907, *Urbana,* Household Science.

Iida, Yoshifusa, G.Agr., (*Tokio Imperial Univ.*), *Tokio, Japan,* Animal Husbandry.

[1]Ireland, Washington Parker, B.S., 1903, *Chicago,* Civil Engineering.

Jaeck, Emma Gertrude, B.L., (*Univ. of Wis.*), 1903, *Monmouth,* German.

James, Leonard Vaughan, B.S., 1906, *Amboy,* Electrical Engineering.

[1]Janssen, Otto, B.S., 1904, *Los Angeles, Cal.,* Architecture.

Jenney, Adeline Miriam, A.B., (*Univ. of Wis.*), 1899, *Yankton, S. Dak.,* English.

[1]In absentia.

[1]Jensen, Joseph Norman, B.S., 1906, *Chicago,* Civil Engineering.

Johnson, Charles Sunderland, B.S., 1903, *LaGrange,* Mechanical Engineering.

Johnson, Mabel Clare, A.B., (*Ouachita Coll.*), 1907, *Arkadelphia, Ark.,* Modern Languages.

Jones, Sadocie Connellee, B.Agr., (*Ky. State Coll.*), 1906, *Sadieville, Ky.,* Agronomy.

Kean, Hugh Pratt, A.B., (*Albion Coll.*), 1906, *Urbana,* Mathematics.

Keeler, Fred Crosby, A.B., 1907, *Belvidere,* History.

Kerr, Josephine Ellrod, B.S., 1907, *Urbana,* Bacteriology.

[1]Knapp, Willard Alfred, B.S., 1907, *Farmer City,* Civil Engineering.

Lane, Michael A, B.S., (*Univ. of Chicago*), 1906, *Chicago,* Physiology.

Latzer, Lenore Lydia, A.B., 1906, M.S., (*Univ. of Mich.*), 1907, Highland, Bacteriology.

Layton, Katherine Alberta W, A.M., 1906, *Canton,* German.

Leverett, Warren Hamilton, M.S., (*Shurtleff Coll.*), 1905, *Upper Alton,* Chemistry.

Lewis, Byron Ray, A.B., 1907, *Bridgeport,* History.

Long, Roy Harold, B.S., 1906, *Lexington,* Horticulture.

Lowrie, Selden Gale, A.B., (*Knox Coll.*), 1907, *Galesburg,* Political Science.

McConn, Charles Maxwell, A.M., (*Univ. of Minn.*), 1904, *Minneapolis, Minn.,* English.

McCrory, Grover Cleveland, B.C.E., (*Univ. of Arkansas*), 1906, *McCrory, Ark.,* Municipal and Sanitary Engineering.

McLaughlin, Edna Mildred, A.B., 1907, *Galesburg,* French.

Maddox, Wilbur Clinton, B.S., 1907, *Galva,* Electrical Engineering.

Manuel, Earle Vincent, B.S., (*Univ. of Minn.*), 1907, *Minneapolis, Minn.* Chemistry.

[1]Marquis, Franklin Wales, B.S., 1905, *Bloomington,* Mechanical Engineering.

Mathews, Roberts Maurice, B.S., (*Butler Coll.*), 1906, *Indianapolis, Ind.,* Mathematics.

[1]Matthews, Robert Clayton, B.S., 1902, *Champaign,* Mechanical Engineering.

Mattill, Henry Albright, A.M., (*Western Reserve Univ.*), 1907, *Leavenworth, Kan.,* Chemistry.

[1]In absentia.

[1]Maxwell, Wymer Washington, B.S., 1907, *Charleston,* Architecture.
[1]Meier, William, B.S., 1901,.*Chicago,* Civil Engineering.
Merrill, Amos Newlove, B.S., (*Agri. Coll. of Utah*), 1896, *Logan, Utah,* Agronomy.
[1]Mogensen, Peter, B.S., 1894, *Urbana,* Civil Engineering.
Montooth, Charles Stuart, A.B., 1905, *Toulon,* History.
Moore, Blaine Free, A.B., (*Univ. of Kan.*), 1901, *Cherryvale, Kan.,* Political Science.
Morrison, Harry Cleveland, A.B., (*Univ. of Ind.*), 1907, *Hazelton, Ind.,* Mathematics.
Mumford, Herbert Windsor, B.S., (*Mich. Agri. Coll.*), 1891, *Urbana,* Agricultural Economics.
Myers, Clyde Hadley, B.S., (*Ill. Wesleyan Univ.*), 1907, *Bloomington,* Agronomy.
[1]Myers, Elmer James, A.B., 1907, *Belleville, Kan.,* Psychology.
Nichol, Josephine Shepardson, A.B., (*Denison Univ.*), 1900, *Urbana,* German.
Nightingale, Harry Thomas, Ph.B., (*Univ. of Mich.*), 1895, *Urbana,* Political Science
Noerenberg, Clarence Eugene, B.S., 1907, *Highland Park,* Architecture.
Nuttall, John Tilden, B.S., (*Northwestern Univ.*), 1905, *Urbana,* Chemistry.
Oathout, Charles Hubert, B.S., 1907, *Urbana,* Agronomy.
Owen, Mary Elizabeth Hodges, A.B., (*Univ. of Wis.*), 1907, *Chicago,* Modern Languages.
Palmer, George Merit, (receives A.B. in 1908), *Champaign,* History.
Patchin, Mary Amoret, A.B., (*Wellesley Coll.*), 1906, *Chardon, O.,* English.
Petty, Luther Ewing, A.B., (*Wabash Coll.*), 1907, *Aspen Hill, Tenn.,* Modern Languages.
[1]Poirot, Alois Phillip, B.S., 1906, *Belleville,* Civil Engineering.
Ponzer, Ernest William, B.S., 1900, *Henry,* Mathematics.
Porter, Francis Marion, B.S., (*Ohio Univ.*), 1907, *Circleville, O.,* Physics.
[1]Post, Raeburn Henry, B.S., 1904, *Champaign,* Mechanical Engineering.
[1]Randall, Frank Alfred, B.S., 1905, *Chicago,* Civil Engineering.
Reed, Susan Martha, A.B., (*Mt. Holyoke Coll.*), 1907, *Westfield Mass.,* History.

[1]In absentia.

Reynolds, Ernest Shaw, A.M., (*Brown Univ.*), 1907, *Providence, R. I.,* Botany.

Roark, Ruric Creegan, A.B., (*Univ. of Cincinnati*), 1907, *Richmond, Ky.,* Chemistry.

Roberts, Kathleen Alice, A.B., 1906, *Champaign,* English.

[1]Robinson, Ward Reid, B.S., 1906, *Springfield,* Civil Engineering.

Rogers, Jerome Stanley, B.S., (*Syracuse Univ.*), 1907, *Honeoye Falls, N. Y.,* Chemistry.

Rutherford, Thomas Arthur, M.D., (*Univ. of Pa.*), 1907, M.S., (*Princeton Univ.*), 1907, *Carbondale, Pa.,* Chemistry.

Sandifur, Claude Williamson, A.B., (*Indiana Univ.*), 1906, *Champaign,* Physics.

[1]Sargent, Charles Elliotte, B.S., 1886, *Chicago,* Mechanical Engineering.

[1]Sawyer, George Loyal, B.S., 1903, *Chicago,* Mechanical Engineering.

Schmidt, Mrs Violet Jayne, A.B., (*Univ. of Mich.*), 1887, Ph.D., (*Univ. of Minn.*), 1903, *Urbana,* Sociology.

[1]Schutt, Alfred George, B.S., 1905, *Belleville,* Civil Engineering.

[1]Seymour, Budd Willard, B.S., 1903, *Dwight,* Civil Engineering.

Shade, Imogene, A.B., 1907, *Bloomington,* Mathematics.

[1]Shattuck, Walter Francis, B.S., 1891, *Chicago,* Architecture.

Shaw, Hazel Yearsley, A.B., 1907, *Urbana,* History.

[1]Shepardson, Ralph Steele, B.S., 1897, *Aurora,* Architecture.

Shoop, Adaline Margaret, A.B., (*Hedding Coll.*), 1904, *Abingdon,* Latin.

Sim, Keturah Elizabeth, M.L., 1895, *Urbana,* English.

[1]Slocum, Roy Harley, B.S., 1900, *Urbana,* Civil Engineering.

[1]Smith, George Russell, B.S., 1900, *Elkhart, Ind.,* Mechanical Engineering.

Smith, James Elmo, B.S., (*Univ. of Wis.*), 1903, *Urbana,* Civil Engineering

Stebbins, Millicent, A.B., (*Univ. of Neb.*), 1906, *Omaha, Neb.,* German.

Steele, Ava D, A.B., (*Mo. Valley Coll.*), 1898, A.M., (*Univ. of Mo.*), 1901, *Marshall, Mo.,* English.

Stempel, Waldemar Matthaeus, AB., (*Ind. Univ.*), 1905, *Urbana,* Physics.

Stephenson, Edward Beattie, M.S., (*Knox Coll.*), 1907, *Sparta,* Physics.

Stewart, John Truesdale, B.S., 1893, *Paxton,* Civil Engineering.

Stifler, William Warren, A.B., (*Shurtleff Coll.*), 1902, *Upper Alton,* Physics.

[1]In absentia.

[1]Stone, Mrs. Mildred Ann, A.B., 1903, *Bloomington,* Psychology.
Strand, Carl John, A.B., (*Augustana Coll.*), 1907, *Brattleboro, Vt.,* Economics.
[1]Strawn, Myrtle, A.B., 1906, *Albion,* English.
Stuhlmann, Otto, Jr., A.B., (*Univ. of Cincinnati*), 1907, *Cincinnati, O.,* Physics.
Stull, Ray Thomas, E.M., (*Ohio State Univ.*), 1902, *Elkland, Pa.,* Chemistry.
[1]Swanberg, Floyd Ludwig, B.S., 1902, *Cincinnati, O.,* Mechanical Engineering.
Tanquary, Maurice Cole, A.B., 1907, *Champaign,* Entomology.
[1]Thayer, William Sumner, B.S., 1905, *Chicago,* Electrical Engineering.
Tower, Willis Eugene, B.S., 1894, *Chicago,* Physics.
[1]Trimble, Clara Eugenia, A.B., 1904, *Champaign,* History.
Van Alstine, Ernest, B.S., (*Mich. Agri. Coll.*), 1907, *Grand Ledge, Mich.,* Agronomy.
Van Doren, Carl Clinton, A.B., 1907, *Urbana,* English.
[1]Weeks, Harry William, A.B., (*Lombard Coll.*), 1900, B.S., 1904, *Jackson, Mich.,* Mechanical Engineering.
Weir, Mabel McQueen, A.B., (*Stanford Univ.*), 1904, *Champaign,* Latin.
Werckshagen, Paul Eberhard, (*Graduate of Gymnasium, Schwedt, Germany*), A.B., (*Univ. of Berlin*), 1901, *St. Louis, Mo.,* Modern Languages.
West, James Alexander, B.S., (*Ill. Wesleyan Univ.*), 1899, A.M., (*Boston Univ.*), 1903, *Champaign,* Zoology.
Wheeler, Wilfred Forrest, B.S., (*Kansas Univ.*), 1908, *Urbana,* Chemistry.
White, Fred H, B.S., 1907, *Long View,* Economics.
White, Marion Ballantyne, Ph.B., (*Univ. of Mich.*), 1893, Champaign, Mathematics.
Williams, Elmer Howard, A.M., (*Univ. of Wis.*), 1906, *Urbana,* Physics.
Willis, Clifford, B.S., 1900, *Champaign,* Agronomy.
Wilson, Harley Frost, B.S., (*Colo. Agri. Coll.*), 1907, *Victor, Colo.,* Entomology.
Wright, Lora, A.B., (*Smith Coll.*), 1905, *Urbana,* History.
Yeck, Charles Walter, A.B., 1907, *Flora,* Physiology.
[1]Zimmerman, Walter Herman, B.S., 1897, *Champaign,* Mechanical Engineering.

[1]In absentia.

SENIORS

Abbott, Edwina Eunice,	*Oak Park,*	General, L. and A.
Ackemann, Henry Conrad,	*Elgin,*	Civil Eng'g.
Adams, Edwin Bert,	*Steger,*	Civil Eng'g.
Akers, Deborah Chase	*Decatur,*	General, L. and A.
Allen, Albert,	*Mt. Vernon,*	Business, L. and A.
Almy, William Herbert,	*Sterling,*	Mechanical Eng'g.
Applegate, Annie Mary,	*Atlanta,*	General, L. and A.
Arthur, Robert Stuart,	*Oak Park,*	Civil Eng'g.
Atkinson, Harry James,	*Joliet,*	General Science
Atkinson, Sheridan Knox,	*Madison, Wis.,*	Civil Eng'g.
Atwood, Paul Wiley,	*Aurora,*	Agriculture.
Aumer, Joseph Paul,	*Urbana,*	Chemistry.
Bach, Irwin Woodward,	*Urbana,*	Medical.
Baker, Mary Ellen, A.B., (*Lincoln Univ.*) 1900,	*Decatur,*	Library, 5th year.
Baldwin, Jessie Emma,	*Ottawa,*	General Science.
Ball, Roscoe Lawrence, A.B., (*Eureka Coll.*), 1906,	*Eureka,*	Agriculture.
Bannon, Winifred Agnes,	*Joliet,*	General, L. and A.
Barker, Lawrence Byron,	*Batavia,*	Municipal Eng'g.
Barnhart, Edna Pearl,	*Urbana,*	General, L. and A.
Barrett, Jesse Logan,	*Henry,*	Agriculture.
Bartells, Edwin Jacob,	*Camp Point,*	Chemistry.
Bartells, George Case, Jr.,	*Camp Point,*	Chemistry.
Batterson, Mayme Alice, Ph.B., (*Ohio State Univ.*), 1901,	*Portsmouth, O.,*	Library, 5th year.
Bauer, August Henry,	*Chicago,*	Medical.
Baxter, Charles Bayard,	*Nauvoo,*	Mechanical Eng'g.
Beal, Daniel Middlekauff,	*Moline,*	Medical.
Bear, Arthur Linn,	*Decatur,*	Civil Eng'g.
Benjamin, Fred Parker,	*Watseka,*	General, L. and A.
Bennett, Stella, B.L.S., 1903,	*Belvidere,*	General, L. and A.
Berolzheimer, Solomon Milton,	*Chicago Heights,*	Mech. Eng'g.
Berolzheimer, Teresa Ruth,	*Chicago Heights,*	Chemistry.
Besore, Hazel,	*Urbana,*	General, L. and A.
Bevis, Albon,	*Urbana,*	Architectural Eng'g.
Bigelow, Mary Constance, A.B., 1902,	*Champaign,*	Library, 4th year.
Billingsley, Mary Prudence, A.B., (*Univ. of Kansas*), 1902,	*Belleville, Kan.,*	Library, 5th year.

Black, William Z,	*Urbana,*	Agriculture.
Blohm, Lee Ross,	*Beardstown,*	General, L. and A.
Bond, Ethel, A.B., 1907,	*Champaign,*	Library, 5th year.
Boothe, Viron Joseph,	*El Paso, Tex.,*	Electrical Eng'g.
Bopp, Julius Valentine,	*New Memphis,*	Agriculture.
Bowman, Louis Napoleon,	*Mason City,*	Mechanical Eng'g.
Bracker, Emil Mark Diedrich,	*Hillsdale,*	Agriculture.
Bradshaw, Percy Belmont,	*Dixon,*	Electrical Eng'g.
Brand, Herbert Amery,	*Danville,*	Architectural Eng'g.
Brooks, Ira Sandford,	*Beecher City,*	Agriculture.
Brown, Briggs Odd,	*Lyons, Ind.,*	Electrical Eng'g.
Brown, Harry Clifford, Jr.,	*Chicago,*	Civil Eng'g.
Brownson, Winnina Ella,	*Centralia,*	General, L. and A.
Brundage, Avery,	*Chicago*	Civil Eng'g.
Brundage, Florence Louise,	*Muskegon, Mich.,*	Lib., 4th year.
Bryan, Sarah Elizabeth,	*Champaign,*	Library, 4th year.
Bumstead, Arthur Pingree,	*Dundee,*	General, L. and A.
Burch, George Francis,	*Urbana,*	Civil Eng'g.
Burgess, Benjamin Payson,	*Aurora,*	Civil Eng'g.
Burgess, Harry Holdridge,	*Tonica,*	Civil Eng'g.
Burres, Opal,	*Urbana,*	General, L. and A.
Burroughs, Wilbur Gordon,	*Edwardsville,*	Civil Eng'g.
Burwash, Milo Eugene,	*Champaign,*	Agriculture.
Busey, Carolyn Elizabeth,	*Urbana,*	Household Science, Agr.
Busey, Charles Bowen,	*Urbana,*	General, L. and A.
Bushnell, Ethel May,	*Urbana,*	General, L. and A.
Bushnell, Horace Leland,	*Paxton,*	Architectural Eng'g.
Butler, John Prescott,	*Monticello,*	General, L. and A.
Buyers, Archie Stanton,	*Sterling,*	Mechanical Eng'g.
Byers, Frank Milton,	*Charleston,*	Agriculture.
Cabanis, John Brahm,	*Kinmundy,*	Civil Eng'g.
Cairns, John Webster,	*Richmond,*	Electrical Eng'g.
Campbell, Samuel Charles,	*Marissa,*	Civil Eng'g.
Candor, Robert Jay,	*Aledo,*	Architecture.
Carrithers, Ira Thomson,	*Saunemin,*	General, L. and A.
Cass, Sherman,	*Cerro Gordo,*	General Science.
Chapin, Mae,	*Champaign,*	General, L. and A.
Christopher, Daniel Leroy,	*Urbana,*	General Science.
Cleveland, Mortimer Burnham,	*Waterloo, Ia.,*	Architecture.
Clifford, Winnifred Hazel,	*Champaign,*	General, L. and A.
Coghlan, Byron Kemp,	*Kankakee,*	Civil Eng'g.
Coulson, Margaret May,	*Des Moines, Ia.,*	Library, 4th year.

Connard, Curtis Earl,	*Decatur,*	Electrical Eng'g.
Cook, Frank Louis,	*Oak Park,*	Electrical Eng'g.
Coons, George Herbert,	*Bloomington,*	General Science.
Cooper, Hazle Katherine,	*Champaign,*	General, L. and A.
Cornell, Ralph Gilbert,	*Chicago,*	Civil Eng'g.
Cox, Flemin Willet, Jr.,	*Bridgeport,*	General, L. and A.
Cox, James Francis,	*Urbana,*	Medical
Coyle, John Frank,	*Penfield,*	Mechanical Eng'g.
Craig, Jennie Adah, A.B., 1906,	*Champaign,*	Library, 4th year.
Crossett, Gordon William,	*Salem,*	Electrical Eng'g.
Cutler, Stanley Gardner,	*Chicago,*	Civil Eng'g.
Dadant, Maurice G,	*Hamilton,*	Business, L. and A.
Daehler, Albert Hartman,	*Chadwick,*	General, L. and A.
Davidson, Dora,	*Sullivan,*	Library, 5th year.
Davis, Marietta Syrl,	*Straight Creek, Kan.,*	General, L. and A.
Deal, Hiram Linus,	*Taylorville,*	Agriculture.
Deets, Ralph Emerson,	*Sterling,*	Electrical Eng'g.
Delmege, Maude,	*DesMoines, Ia.,*	General, L. and A.
Denny, Christina, A.B., 1905,	*Lincoln,*	Library, 5th year.
Dewey, Sarah Louise, M.S., 1899,	*Urbana,*	General, L. and A.
Dicke, Otto Arthur,	*St. Louis, Mo.,*	Civil Eng'g.
Dickinson, Nelle Major,	*Eureka,*	Household Science, Agr.
Dieter, Charles Foster,	*Chicago,*	Chemical Eng'g.
Dillon, Bessie,	*Normal,*	Household Science, Agr.
Disosway, Mark Deems,	*Sheldon,*	Mechanical Eng'g.
Doherty, Mary Gertrude,	*LaGrange,*	General, L. and A.
Donoho, Earl Willoughby, A.B., (*McKendree Coll.*), 1904,	*Troy,*	Mechanical Eng'g.
Dugan, Charles Bedard,	*LaSalle,*	Railway Eng'g.
Dunn, Harold Houghton,	*Moline,*	Railway Eng'g.
Dunning, Frank Wright,	*Aurora,*	Mechanical Eng'g.
Earnest, William Watson,	*Bushnell,*	General, L. and A.
Edmunds, Daniel Austin,	*Gilman,*	Mechanical Eng'g.
Edwards, Jeannette Ellen,	*Champaign,*	General, L. and A.
Eiszner, Adeline Christine,	*Oak Park,*	General, L. and A.
Ellis, Arthur Jackson,	*Chicago Heights,*	General Science.
English, Jesse Thomas,	*Isabel,*	Civil Eng'g.
Eno, Sarah Wooster,	*Charlotte, Vt.,*	General, L. and A.
Ervin, Helen Elaine,	*Kingston, Tenn.,*	Library, 4th year.
Ewing, Harriet Grace,	*St. Joseph, Mo.,*	Household Science, Agr.

Faber, Daniel Cleveland,	*Paw Paw,*	Electrical Eng'g.
Fargo, Roy Newton,	*Chicago,*	Electrical Eng'g.
Fast, Emmett Emerson,	*Princeville,*	Mechanical Eng'g.
Fisher, Ora Stanley,	*Washburn,*	Agriculture.
Fitch, Eva Lillian,	*Sac City, Ia.,*	Library, 4th year.
Fossland, Gerard Leonard,	*Winthrop Harbor,*	Mech. Eng'g.
Foster, Faith Estelle,	*Boulder, Colo.,*	Library, 4th year.
Fraser, Annebel,	*LaSalle,*	Library, 5th year.
Gaines, Walter Lee,	*Crete,*	Agriculture.
Gangsted, Julius Siverine,	*Deerfield, Wis.,*	Agriculture.
Garnett, Robert Edward,	*Plymouth,*	Business, L. and A.
Geltmacher, Clara Blythe,	*Urbana,*	Library, 4th year.
Gentsch, Vida Celinda,	*New Philadelphia, O.,*	General, L. and A.
Gesell, Egbert George,	*Tomahawk, Wis.,*	Business, L. and A.
Gibson, Mary,	*Dana, Ind.,*	General, L. and A.
Gibson, Miles Otto,	*Urbana,*	Mechanical Eng'g.
Gillespie, Paul,	*Atlantic, Ia.,*	Architecture.
Gilstrap, Eugene Franklin,	*Tacoma, Wash.,*	Architecture.
Glasgow, Hugh,	*Tennessee,*	General Science.
Glasgow, Robert Douglass,	*Tennessee,*	General Science.
Gonnerman, Harrison Frederick,	*Dixon,*	Civil Eng'g.
Grady, Paul L,	*Bloomington,*	Civil Eng'g.
Graham, Ray Austin,	*Washington, Ind.,*	Agriculture.
Grant, David John,	*Chicago,*	Civil Eng'g.
Greene, James Henry,	*Dubuque, Ia.,*	Agriculture.
Greene, William Bertram,	*Lisle,*	Mechanical Eng'g.
Gridley, Clara Louise,	*Virginia,*	Library, 4th year.
Griswold, Elizabeth Victoria,	*Mt. Morris,*	General, L. and A.
Grosh, Elizabeth Phyllis,	*Mendon,*	Household Science, Agr.
Gross, Alfred Otto,	*Atwood,*	General Science.
Grove, Sanford Lackey,	*Cerro Gordo,*	Agriculture.
Grubel, Edward Alexander,	*Decatur,*	Civil Eng'g.
Hachmeister, George John Ernest,	*Chicago,*	Mechanical Eng'g.
Hall, Edward Leverich,	*Danville,*	General, L. and A.
Hall, Ward Elmo,	*LaMoille,*	Electrical Eng'g.
Hall, Ward Everett,	*Monmouth,*	Agriculture.
Hampton, Ira,	*Muscatine, Ia.,*	Electrical Eng'g.
Hanson, Frank Lawrence,	*Chicago,*	Mechanical Eng'g.
Hanzlik, Paul John,	*Cedar Rapids, Ia.,*	Medical

Harder, Rubey Osgood, *Lockport,* Civil Eng'g.
Harris, Albert Jesse, *Helena, Ark.,* Railway Eng'g.
Harrison, Florence, *Champaign,* Household Science, Agr.
Hayes, Florence, B.S., (*Cornell Coll.*), 1892, *Morrison,* Library, 4th year.
Haynes, Mark Ross, *LaSalle,* Civil Eng'g.
Hazard, Lee Herbert, *Dixon,* Electrical Eng'g.
Heaney, Arthur Noble, *Mendon,* Civil Eng'g.
Hellstrom, Klaus Edward, *Evanston,* Electrical Eng'g.
Herrick, Hope, *Farmer City,* General, L. and A.
Herrin, George Boyer, *Bunker Hill,* Electrical Eng'g.
Hill, Carrie Marsh, *Chicago,* General, L. and A.
Hill, Norman Haden, *Champaign,* Architectural Eng'g.
Hobbs, Horace Gaylord, *Pontiac,* Electrical Eng'g.
Hoge, Lura Ethel, *Wenona,* Library, 4th year.
Hogue, Clarence Irvin, *Vincennes, Ind.,* Architecture.
Holt, Sidney Viel, *Oneida,* Agriculture.
Holton, Charles Ray, *Colchester,* General, L. and A.
Hoodwin, Hyman Jacob, *Chicago,* Civil Eng'g.
Howe, Mary, *Chicago,* Household Science, Agr.
Howser, Theron Robinson, *Lincoln,* Civil Eng'g.
Hudson, Harry Henry, *Galva,* Civil Eng'g.
Hueckel, Albert Philip, *Caseyville,* Civil Eng'g.
Huff, Walter William, *Sullivan,* Civil Eng'g.
Hunt, Agnes, *Ridott,* Household Science, Agr.
Hurd, Mayme Lucy, *Fayette, Ia.,* Library, 4th year.
Hursh, Ralph Kent, *Macomb,* Mechanical Eng'g.
Hutchins, Margaret A.B., (*Smith Coll.*), 1906, *Lancaster, N. H.,* Library, 5th year.
Jacobsen, Eda Augusta, *Urbana,* General, L. and A.
Jaquet, George Emil, *Fall City, Neb.,* Railway Eng'g.
Johnson, George Koser, *Mt. Vernon,* Business, L. and A.
Johnson, Roxana Galletly, A.B., (*Indiana Univ.*), 1903, *Spencer, Ind.,* Library, 5th year.
Jones, John Lloyd, *Bradford,* Municipal Eng'g.
Jones, Mabel, B.L., 1891, *Champaign,* Library, 4th year.
Jordan, Erwin Byron, *Champaign,* Civil Eng'g.
Kahlert, Herbert Edward, *Carlyle,* Electrical Eng'g.
Kautz, Will Waddell, *Mazeppa,* Mechanical Eng'g.

Kelley, Grace Osgood, B.L.S., 1903, *Urbana,* General, L. and A.
Kelso, Ruth, *Columbus, O.,* General, L. and A.
Kerch, Walter Washington, *Janesville, Wis.,* Civil Eng'g.
Kerr, Bartlett Martin, *Urbana,* Mechanical Eng'g.
Kindig, Pearl, *Secor,* General, L. and A.
Knappenberger, George Emmett, *Macomb,* Medical.
Knirk, Carl Fred, *Quincy, Mich.,* General Science.
Laflin, Mary Elizabeth, *Champaign,* Music.
Lange, Ida Louise, *Holcomb, W. Va.,* Library, 5th year.
Larracas, Fidel Vidal, *Boac, P. I.,* Municipal Eng'g.
Latzer, Robert Louis, *Highland,* Agriculture.
Lawless, Joseph Conrad, *Quincy,* Chemistry.
Leidendeker, Frank Earl, *Champaign,* Mechanical Eng'g.
Lloyd, Jennie Mae, *Girard,* General, L. and A.
Lodge, Fred Sterling, *Monticello,* Chemical Eng'g.
Logan, Clarence Chester, *Flora,* Agriculture.
Logan, Grace Belle, *Edinburg,* Household Science, Agr.
Long, Arthur Theodore, *St. Louis, Mo.,* General, L. and A.
Long, Joseph Ayres, *Amboy,* Civil Eng'g.
Lorenz, Frederick Ayres, Jr., *Chicago,* Railway Eng'g.
Loutzenhiser, Ernest Harbin, *Danville,* Mechanical Eng'g.
Love, Robert James, *Hoopeston,* Architecture.
Lowry, Thomas Grover, *Upper Alton,* Civil Eng'g.
Lumbrick, Arthur, *Charleston,* Agriculture.
McAnulty, Ethel Electa, A.B., 1905, *Carthage,* Library, 4th year.
McCain, Myrtle B, *Bloomington,* Household Sci., S.
McCaskey, Wendla Justitia, *Chicago,* Household Science, L. and A.
McClenahan, William Thompson, *Monmouth,* Municipal Eng'g.
McCoy, Milton Howard, *Chicago Heights,* Civil Eng'g.
McCracken, Robert Weir, *Bloomfield, Ind.,* Civil Eng'g.
McDonald, Alice Birdie, *Charleston,* General, L. and A.
McDonald, Lewis, *Brownstown,* Civil Eng'g.
McIntire, Ella Elliott, *Urbana,* Library, 4th year.
Mackay, Zella Graham, *Mount Carroll,* Household Science, Agr.
McMahon, Grace Dorothy, *Maywood,* Library, 5th year.
McMillan, Matthew Hunter, *Swanwick,* Electrical Eng'g.
McNeill, Norah, *Harristown,* Library, 4th year.

Madison, George,	*Savanna,*	General, L. and A.
Malcolm, Howard Stout,	*Roseville,*	Civil Eng'g.
Mangas, Lyman Samuel,	*Lincoln,*	General, L. and A.
Mann, Howard Leslie,	*Kankakee,*	Railway Eng'g.
Marsden, Roger Dearborn,	*St. Charles,*	Civil Eng'g.
Matthews, Nellie Pearl,	*Rock Island,*	General, L. and A.
Maze, Everett Andy,	*Anna,*	Electrical Eng'g.
Meadows, David Stanley,	*Chicago,*	Civil Eng'g.
Miller, Alvin Charles,	*Urbana,*	Mechanical Eng'g.
Miller, Bertha Alice,	*Paris,*	General, L .and A.
Miller, Clarence Benwell,	*Boswell, Ind.,*	Electrical Eng'g.
Miller, Nelle Grant,	*Champaign,*	General, L. and A.
Miner, Ada Mae,	*Champaign,*	General, L. and A.
Moore, John Beverly,	*Benton,*	Medical.
Moore, Joseph Kennedy,	*Champaign,*	Ceramics.
Morgan, Meryl Stanly,	*Galva,*	Civil Eng'g.
Morris, James Edwin,	*Congress Park,*	Electrical Eng'g.
Moulton, Walter Ross,	*Glen Ellyn,*	Electrical Eng'g.
Munger, Guy Elmer,	*Rock Island,*	Mechanical Eng'g.
Murphy, Grace Eleanor,	*Tuscola,*	General, L. and A.
Nation, Mary Ethel,	*Chebanse,*	General, L. and A.
Neuman, John Adams,	*Springfield,*	Electrical Eng'g.
Newcomb, Jessie Ruth,	*Champaign,*	General, L. and A.
Nichol, Marion Starr,	*Urbana,*	General, L. and A.
Nicodemus, Frederick Bowman,	*Forreston,*	Civil Eng'g.
Niederman, Gertrude,	*Chicago,*	Chemistry.
Nitz, Ingo Charles,	*Chicago,*	Electrical Eng'g.
Northey, Della Frances, Ph.B., (*Iowa Univ.*), 1898,	*Dubuque, Ia.,*	Lib., 5th year.
Nydegger, Charlotte Marie,	*Danville,*	Household Science, S.
O'Hair, Lulu Claire,	*Laurel, Ind.,*	General, L. and A.
Olmsted, George Chauncey,	*Chattanooga, Tenn.,*	Mech. Eng'g.
Ostrander, Mabel Verona,	*Chicago,*	General, L. and A.
Park, Jay Boardman,	*Paxton,*	General Science.
Parker, Minnie Leonora,	*Taylorville,*	General, L. and A.
Parker, Washington Warren,	*Elgin,*	Electrical Eng'g.
Parsons, Irene Mary,	*Chicago,*	General, L. and A.
Pearman, Arthur Columbia,	*Champaign,*	Medical.
Perry, Leonora Naomi,	*Hackensack, N. J.,*	Lib., 4th year.
Perry, Winifred Almina,	*Urbana,*	General, L. and A.
Pfeil, Mary Esther,	*Arenzville,*	Education, L and A.
Pfisterer, George Edward,	*Sterling,*	Mechanical Eng'g.

Phillips, Lydia Anne, A.B., (*Ohio State Univ.*), 1905,	*Columbus, O.,*	Library, 5th year.
Pierce, Raymond Clark,	*Harristown,*	Civil Eng'g.
Pillinger, Ralph Alfred,	*Chicago,*	Architectural Eng'g.
Pillsbury, Charles Stephen, A.B., 1907,	*Urbana,*	Mechanical Eng'g.
Porterfield, Nellie Mildred,	*Fairmount,*	General, L. and A.
Postel, Allan Julius,	*Mascoutah,*	Business, L. and A.
Powers, Hiram James,	*Taylorville,*	Civil Eng'g.
Price, Anna May, B.L.S., 1900,	*Urbana,*	General, L. and A.
de la Rama Josè,	*Bacolod, P. I.,*	Agriculture.
Rambo, Jessie Eulalia,	*DeLong,*	Household Science, S.
Ray, Howard Alden,	*Peabody, Kan.,*	General, L. and A.
Regan, Ralph Howard,	*Chicago,*	Mechanical Eng'g.
Reno, John Franklin,	*Browning,*	Mechanical Eng'g.
Rhodes, Edward Melvin, LL.B., 1900,	*Urbana,*	Agriculture.
Ritchie, Elizabeth Prophet, A.B., (*Cotner Coll.*), 1900,	*Wymore, Neb.,*	Library, 4th year.
Robinson, Raymond Elder,	*Peoria,*	Mechanical Eng'g.
Rolfe, Amy Lucile,	*Champaign,*	General Science.
Ropp, Franklin Newton,	*Chicago,*	Civil Eng'g.
Routson, Fred John,	*Toledo, O.,*	Civil Eng'g.
Rutledge, Nellie Irene,	*Mt. Sterling,*	General, L. and A.
Ryan, Edwin Groves,	*Chicago,*	Business, L. and A.
Sachs, Inez Floyance,	*Towanda,*	Library, 4th year.
Saemann, Mabelle Oletta, A.B., (*Univ. of Wis.*), 1905,	*Plymouth, Wis.,*	Library, 4th year.
Sands, Effie Louvisa,	*University Place, Neb.,*	Library, 4th year.
Sargent, Agnes Lucy,	*Exeter, N. H.,*	General, L. and A.
Sawyer, John Henry,	*Charleston,*	General Science.
Schertz, Albert Charles,	*Tiskilwa,*	General, L. and A.
Schneider, Bertha Mabel,	*Columbus, O.,*	Library, 4th year.
Schulzke, William Henry,	*Springfield,*	Architecture.
Schwerin, Arthur,	*Burlington, Ia.,*	Civil Eng'g.
Scovill, Hiram Thompson,	*Rockford,*	Business, L. and A.
Scrogin, Edith Naomi,	*Lexington,*	General, L. and A.
Sevilla, Hermenegildo,	*Manila, P. I.,*	Agriculture.
Shannon, Agnes Nancy,	*Freeport,*	Household Science, Agr.
Shaw, James William,	*Springfield,*	Mechanical Eng'g.

Shields, Charles Culver,	*Highland Park,*	Mechanical Eng'g.
Shipman, Louise,	*DeKalb,*	General, L. and A.
Simpson, Frank,	*Pana,*	Agriculture.
Sisam, Mrs. Cora Hutton,	*Urbana,*	General Science.
Slaymaker, Charles Monroe,	*Erie,*	Civil Eng'g.
Smith, Claire Howland Wallace,	*Hoopeston,*	Civil Eng'g.
Smith, Ellis Edwin,	*Joliet,*	Mechanical Eng'g.
Smith, Elizabeth,	*Broadhead, Wis.,*	Lib., 4th year.
Smith, Irwin Webster,	*Urbana,*	General, L. and A.
Smith, Leslie Alden,	*Champaign,*	Business, L. and A.
Smith, Rufus William,	*Urbana,*	Agriculture.
Smith, Theodore Meade,	*Auburn,*	Agriculture.
Snyder, Stanley S,	*Danville,*	General, L. and A.
Soderwall, Johan Einar Fabian,	*Chicago,*	Library, 4th year.
Solberg, Leif Peder Bjorgvin,	*Aurora,*	Mechanical Eng'g.
Sonntag, Elsie Roberta,	*Plainfield,*	General, L. and A.
Sonntag, Viola Hope,	*Plainfield,*	General, L. and A.
Spencer, Fannie Grace Clara,	*Terre Haute, Ind.,*	Chemistry.
Spray, Edith Lillian, B.L.S., 1907,	*Arlington Heights,*	General, L. and A.
Sprecher, Irvin Sherwood,	*Zion City,*	Agriculture.
Stahl, Lloyd Richard,	*Chillicothe,*	Electrical Eng'g.
Stair, Jacob Leander, Jr.,	*Altamont,*	Electrical Eng'g.
Stanford, Howard Russel,	*Chatsworth,*	Agriculture.
Stephens, Herbert Coles,	*Sycamore,*	Electrical Eng'g.
Stewart, Charles Arthur,	*Genoa,*	Agriculture.
Stewart, Charles Sumner,	*Charleston,*	Civil Eng'g.
Stiff, Ross McGehee,	*Harrisburg,*	Chemistry.
Stinson, Spencer A,	*Colfax,*	Civil Eng'g.
Stone, Paul Prime,	*Lincoln,*	Business, L. and A.
Stout, Elizabeth Ten Eyck,	*Petoskey, Mich.,*	Library, 5th year.
Straight, Fleda DeVere,	*Fonda, Ia.,*	Library, 5th year.
Streid, Joseph Benjamin,	*Metamora,*	Medical.
Styles, Edward Anthony,	*Champaign,*	Railway Eng'g.
Surman, Hugo Ewald,	*Collinsville,*	Civil Eng'g.
Swartz, Jesse Wilmot,	*Mansfield,*	Electrical Eng'g.
Swezey, Anne Davies, B.L.S., 1903,	*Urbana,*	General, L. and A.
Swigart, Lois Edna,	*Farmer City,*	General, L. and A.
Taylor, Nellie Florence,	*Tuscola,*	General, L. and A.
Ten Broeck, Carlon,	*Parsons, Kas.*	Medical.

Terrill, Fred,	*Colchester,*	Mechanical Eng'g.
Thomas, Jennie Insley,	*Homer,*	General Science.
Thompson, Josephine Gray,	*Chicago,*	Library, 4th year.
Tilden, Elmer A,	*Canton, O.,*	Architecture.
Toland, Jessie May,	*Urbana,*	General, L. and A.
Toops, Mack Streevey,	*Scullin, Okla.,*	Civil Eng'g.
Touzalin, Clara Belle,	*Chicago,*	Library, 4th year.
Tucker, Burton Floyd,	*Boston, Mo.,*	Electrical Eng'g.
Tucker, Jesse Orrin,	*Boston, Mo.,*	Electrical Eng'g.
Underwood, Wilbert Eugene,	*Austin,*	Electrical Eng'g.
Urban, Harvey Benjamin,	*Gibson City,*	General Science.
VanBrunt, George Athol,	*Kewanee,*	Chemistry.
Vandagrift, Carl William,	*Centralia,*	General, L. and A.
Van Galder, Cora May,	*Rock Island,*	Household Science, S.
Vaniman, Vernon,	*Virden,*	Agriculture.
Van Inwagen, Frank,	*Champaign,*	Mechanical Eng'g.
Van Petten, Robert Milton,	*Champaign,*	Civil Eng'g.
Wagner, Fritz, Jr.,	*Chicago,*	Architecture.
Wall, Richard James Francis,	*Chicago,*	Architecture.
Wardall, William Jed,	*Tuscola,*	General Science.
Warner, James Madison,	*Syracuse, N. Y.,*	Civil Eng'g.
Waterhouse, Charles Eugene, A.B., 1907,	*Burlington, Ia.,*	Civil Eng'g.
Watters, James Merton,	*Watseka,*	General, L. and A.
Waughtel, Mrs. Nellie Elizabeth	*Cuba,*	Household Science, Agr.
Way, George Fritz,	*Gibson City,*	Medical.
Weatherhead, Drury Lee,	*Moline,*	Chemical Eng'g.
Webber, William Barnett, Jr.,	*Urbana,*	Mechanical Eng'g.
Weber, Emil August,	*Milwaukee, Wis.,*	Civil Eng'g.
Webster, Robert Lorenzo,	*Washington, D. C.,*	General Science.
Weinberg, Nina Mary,	*Rushville,*	General, L. and A.
Weir, Henrietta Ellen,	*Ypsilanti, Mich.,*	Library, 4th year.
Welch, George Richard,	*Joliet,*	Electrical Eng'g.
White, Earl Archibald,	*Antioch,*	Agriculture.
White, Lena Lee,	*Urbana,*	General, L. and A.
White, Wiebe Alice,	*Austin,*	Library, 4th year.
Wickersham, Clarence Edmund,	*Roseville,*	Electrical Eng'g.
Wilkinson, Stanley E,	*Kankakee,*	Business, L. and A.
Williams, Howard Chandler,	*Elgin,*	General, L. and A.

Williamson, Florence,	*Houston, Tex.,*	General, L. and A.
Wilson, Edwin Leonard,	*Joliet,*	General, L. and A.
Wilson, Hugh Edward,	*Mason City,*	General, L. and A.
Wilson, Lelia Sara,	*Mason City,*	General, L. and A.
Wilson, Willabelle Bernice,	*Champaign,*	General Science.
Winn, Claude Ethelbert,	*Paris,*	Civil Eng'g.
Wood, Beulah Miles,	*Petersburg,*	General, L. and A.
Woodbridge, Mary Emily,	*Urbana,*	General Science.
Woods, Cedar Arabella,	*Walnut, Ia.,*	Library, 4th year.
Wreath, Samuel Ross,	*Hillsdale,*	Chemistry.
Ziesing, Henry Hanna,	*Glencoe,*	Civil Eng'g.

JUNIORS

Ackert, James Edward,	*Dixon,*	General Science.
Almy, Lloyd Huber,	*Sterling,*	Chemical Eng'g.
Alverson, Maude Lena,	*Urbana,*	General, L. and A.
Ames, Albert Wilson,	*Kaneville,*	Mechanical Eng'g.
Anderson, Florence Elizabeth,	*Urbana,*	Household Science, Agr.
Anderson, George Herbert,	*Roseville,*	General, L. and A.
Anderson, Howard Fraser,	*Urbana,*	Architectural Eng'g.
Anderson, Martin Joel,	*Moline,*	Mechanical Eng'g.
Arnold, Ross Harper,	*Oregon,*	Electrical Eng'g.
Ashdown, Harry Edward,	*Port Byron,*	Municipal Eng'g.
Ashley, Leon Eaton Cummings,	*Bluffs,*	Architectural Eng'g.
Baird, John Henry,	*Urbana,*	Agriculture.
Baker, Ruth Marsh,	*Savoy,*	General, L. and A.
Balcom, Henry Clarke,	*Indianapolis, Ind.,*	Agriculture.
Baldwin, Frank Boyd,	*Chicago,*	Civil Eng'g.
Bardwell, Robert Cousins,	*Aurora,*	Chemical Eng'g.
Barr, Nelson Rogers,	*Quincy,*	Electrical Eng'g.
Barth, George Andrew Christian,	*Pana,*	Civil Eng'g.
Bateman, James Metcalf,	*Rockford,*	Electrical Eng'g.
Bauer, Frank Stanley,	*Champaign,*	Mechanical Eng'g.
Bauer, Frederick Charles,	*Champaign,*	Agriculture.
Beach, Bayard Macknet,	*Huron, S. D.,*	Electrical Eng'g.
Beck, Frederick,	*Harvey,*	Architectural Eng'g.
Beck, Ralph Osborne,	*Sioux City, Ia.,*	Civil Eng'g.
Becker, Arthur Bristow,	*Peoria,*	Civil Eng'g.
Beeby, Frank Fairwell,	*LaSalle,*	Civil Eng'g.
Bell, Herbert Eugene,	*Sterling,*	Electrical Eng'g.
Bell, Rodney Linton,	*West York,*	Civil Eng'g.
Benefiel, Eva Marion,	*Mattoon,*	Household Science, Agr.

Bengel, George Adam,	*Springfield,*	Civil Eng'g.
Bengston, Pearle Elsie,	*Urbana,*	Household Sci., L. and A.
Bennet, Harvey Childs,	*Aurora,*	Chemical Eng'g.
Bevis, Daily George,	*Newton,*	Civil Eng'g.
Beyrer, William Herbert,	*South Bend, Ind.,*	Architecture.
Bickel, Mary Andrews,	*Genesco,*	Library, L. and A.
Blair, Alice Ledlie,	*Barry,*	Library, L. and A.
Blake, Katherine Mary,	*Watseka,*	General, L. and A.
Blomfeldt, Allen Axel,	*Chicago,*	Mechanical Eng'g.
Borton, Gail Leslie,	*DeLand,*	Business, L. and A.
Boston, Irma Willard,	*Yorkville,*	Household Science, L. and A.
Bouyoucos, George John,	*Athens, Greece,*	Agriculture.
Boynton, Napoleon Hiram,	*Chicago,*	Electrical Eng'g.
Brackenbury, Benjamin Almond,	*Algonquin,*	Municipal Eng'g.
Braley, Howard Dixon,	*Virden,*	Electrical Eng'g.
Bramhall, Arthur Eugene,	*Michigan City, Ind.,*	Archtecture.
Brauer, Lydia Marie,	*San Jose,*	General, L. and A.
Breckenridge, Gladys Sinclair,	*Urbana,*	General, L. and A.
Bredehoft, Mabel Armena,	*Danville,*	Arch. Decoration.
Bredehoft, Nellie Matilda,	*Danville,*	General, L. and A.
Breitenfeld, Richard,	*Harvard,*	Civil Eng'g.
Bressler, Charles Emery, Jr.,	*South Bend, Ind.,*	Civil Eng'g.
Brown, Edward Webb,	*Metropolis,*	Electrical Eng'g.
Brown, Wallace Keith,	*Watertown, N. Y.,*	Elec. Eng'g.
Buck, Leonard,	*Vermont,*	Business, L. and A.
Bullock, Edith Ray,	*El Paso,*	General L. and A.
Bullock, Lela May,	*El Paso,*	General L. and A.
Burch, William Harrison,	*Morrison,*	Mechanical Eng'g.
Burgess, Frank M.,	*Tonica,*	Agriculture.
Burgett, Jay Thomas,	*Newman,*	Business, L. and A.
Burke, Paul,	*Three Rivers, Mich.,*	Mech. Eng'g.
Burt, John Little,	*Chicago,*	Electrical Eng'g.
Butler, Comfort Straight,	*Cairo,*	General, L. and A.
Butler, William Arthur,	*Kenosha, Wis.,*	Electrical Eng'g.
Cabeen, Richard McPherson,	*Seaton,*	Architecture.
Cairns, George Dean,	*Richmond,*	Business, L. and A.
Campbell, Allan Berry,	*La Harpe,*	Electrical Eng'g.
Carlson, Carl Bernhardt,	*Moline,*	Architectural Eng'g.
Carper, John Fisher,	*Buda,*	Electrical Eng'g.
Cary, Earl Chester,	*Rantoul,*	Business, L. and A.

Casteel, Sarah Myrtle,	*Danville,*	General, L. and A.
Cattron, Kie,	*Fairview,*	Agriculture.
Cawood, Hervey Richey,	*Palestine,*	Civil Eng'g.
Charles, Walter Thomas, Ph.B., (*Shefficld Scientific Sch.*), 1900,	*Chicago,*	Architecture.
Chichester, Emily,	*Brimfield,*	Mathematics, S.
Christopher, Carl,	*Auburn,*	Agriculture.
Clark, Faith Angeline,	*Carthage,*	General, L. and A.
Clarke, Carrie Louise,	*Momence,*	Mathematics, S.
Clarke, Frances Emma,	*Urbana,*	General, L. and A.
Claycomb, Amos Townsend,	*Sycamore,*	Business, L. and A.
Cleavinger, John Simeon,	*Springfield,*	General, L. and A.
Clendenen, Paul McKinney,	*Cairo,*	Business, L. and A.
Clinite, Raymond Grover,	*Cherry Valley,*	Civil Eng'g.
Clow, Grace Miranda,	*Plainfield,*	General, L. and A.
Coker, Myrtle Rose,	*Harrisburg,*	General, L. and A.
Collins, Ray Arthur,	*Chicago,*	Civil Eng'g.
Cook, Frank Samuel,	*Mackinaw,*	Civil Eng'g.
Corrington, Cloyd Ellorne,	*Moweaqua,*	Electrical Eng'g.
Cox, Irving Hughey,	*Mattoon,*	General, L. and A.
Craig, Hazel Iona,	*Aurora,*	General, L. and A.
Craig, Ollison,	*Sullivan,*	Mechanical Eng'g.
Cristy, Harold E.,	*Joplin, Mo.,*	Mechanical Eng'g.
Cromer, Alba Cornelius Honeywell,	*Hoopeston,*	Agriculture.
Crossland, Hiram Edward,	*Sheldon,*	Civil Eng'g.
Crowell, Paul Calvin,	*Chicago,*	Civil Eng'g.
Dady, Arthur Owen,	*Gurnee,*	Mechanical Eng'g.
Danford, Fred Dwight,	*Joy,*	Civil Eng'g.
Dayton, Susan LaRue,	*Paris,*	General, L. and A.
Dean, Harold Churchill,	*Chicago,*	Electrical Eng'g.
DeLany, Clarence Martin,	*Chicago,*	General, L. and A.
DeWitt, Homer Roscoe,	*Chicago,*	Civil Eng'g.
Dickerson, Ira Wilmer,	*Newton,*	Electrical Eng'g.
Dietrich, Benjamin Henry,	*Black River Falls, Wis.,*	Business, L. and A.
Dillon, Lee Amos,	*Sheldon,*	General, L. and A.
Dixon, Guy,	*Kentland, Ind.,*	Electrical Eng'g.
Doerr, William Philip,	*Chicago,*	Architecture.
Doherty Robert Ernest,	*LaGrange,*	Electrical Eng'g.
Dollinger, Hazel Dell,	*Champaign,*	General, L. and A.
Dorman, Dean Stanley,	*Taylorville,*	General, L. and A.

Drennan, Walter R,	*Chicago,*	General, L. and A.
Drew, Joseph Allen,	*Watseka,*	Agriculture.
Dunlap, Nora Betz,	*Savoy,*	General, L. and A.
Dunn, Wilbur Lawrence,	*Peoria,*	Electrical Eng'g.
Eager, Alice,	*Aurora,*	General. L. and A.
Eastman, Otis Miles,	*Harvard,*	General, L. and A.
Eaton, Frances Marilla,	*Tyler, Texas,*	General, L. and A.
Eiker, Bessie Hamilton,	*Sparta,*	General, L. and A.
Eiszner, Bessie Josephine,	*Oak Park,*	General, L. and A.
Ekblaw, Karl John Theodore,	*Rantoul,*	Mechanical Eng'g.
Elliott, Nixon Cash, Jr.,	*Pueblo, Colo.,*	Business, L. and A.
Ercanbrack, Hal Edmund,	*Elburn,*	Electrical Eng'g.
Erskine, Robert Newman,	*Oak Park,*	General, L. and A.
Farr, Alvin Isaac,	*Saunemin,*	General Science.
Fast, Byron Meredith,	*Princeville,*	Electrical Eng'g.
Fink, Erna Marie Elizabeth,	*Austin,*	General, L. and A.
Fisk, Ira William,	*Plain View, Minn.,*	Electrical Eng'g.
Firebaugh, Esther	*Robinson,*	General, L. and A.
Flanders, Junius Aiken,	*Glencoe,*	General, L. and A.
Fosler, Clarence Anthony,	*Savanna,*	Chemical Eng'g.
Fowler, Chester Charles,	*Chicago,*	Chemical Eng'g.
Frazer, Oscar Bryant,	*Rock Island,*	General, L. and A.
Frey, George Earl,	*Freeport,*	Electrical Eng'g.
Froehlich, John Daniel William,	*Chicago,*	Civil Eng'g.
Fruin, Mary Camille,	*El Paso,*	General, L. and A.
Fugard, John Reed,	*Newton, Ia.,*	Architecture.
Gardiner, Lion,	*Chicago,*	Mechanical Eng'g.
Gardner, Clarence Oran,	*Curtis, Neb.,*	General, L. and A.
Gass, Martin John,	*Danville,*	Civil Eng'g.
Gates, Frank Caleb,	*Chicago,*	General Scinece.
Gibbs, Clark Lee,	*Ewing,*	General, L. and A.
Gilbert, Edwin Harland,	*El Paso,*	Electrical Eng'g.
Goff, Lutie Azuba,	*Rantoul,*	General, L. and A.
Goodspeed, Frank,	*Joliet,*	Architectural Eng'g.
Gordon, Inez Dorothy,	*Chillicothe, Mo.,*	General, L. and A.
Gourley, Margaret Travis,	*Paxton,*	General, L. and A.
Gourley, Mary Jane,	*Paxton,*	General Science.
Graham, Mary Adelaide,	*Springfield,*	General, L. and A.
Gresham, Nina Vivian,	*Champaign,*	General, L. and A.
Gridley, Mabel Alberta,	*Morrison,*	Chemistry.

Griffith, Leland Stanford,	*McNabb,*	Agriculture.
Grossberg, Arthur Sariah,	*Chicago,*	Mechanical Eng'g.
Gulley, Laurence Richard,	*Urbana,*	Mechanical Eng'g.
Gundy, Madge Katherine,	*Bismark,*	General, L. and A.
Hadley, Homer Langdon,	*Maroa,*	Electrical Eng'g.
Hagie, Franklin Eugene,	*Elizabeth,*	Medical.
Haines, Arthur Carleton,	*Chicago,*	General, L. and A.
Hall, Ethel Lottie,	*Urbana,*	General, L. and A.
Hall, Irene,	*Cowles, Neb.,*	General, L. and A.
Hamilton, Gene,	*Dwight,*	Agriculture.
Handlin, William Clyde,	*Lake Fork,*	General Science.
Hanes, William Rambo,	*Denver, Colo.,*	Railway Eng'g.
Hanna, Philip Sidney,	*Aurora,*	Civil Eng'g.
Hanson, Mabel Irene,	*Urbana,*	Music.
Hardwicke, John Ogden,	*Chicago,*	Civil Eng'g.
Harkins, Claude Howard,	*Macomb,*	Medical.
Harkness, Columbus Loren,	*Adams,*	Mechanical Eng'g.
Hatcher, Charles Kenneth,	*Quincy,*	Electrical Eng'g.
Hayward, De Alton,	*Ottawa.*	Business, L. and A.
Heisler, Clarence Schuck,	*Champaign,*	Mechanical Eng'g.
Henry, Donald Alison,	*Urbana,*	Electrical Eng'g.
Herrmann, George Albert,	*Peru,*	Mechanical Eng'g.
Hershey, Harry Bryant,	*Taylorville,*	General, L. and A.
Hersman, Francis Craig,	*Hersman,*	Agriculture.
Hertel, Clarence Agnew,	*Freeburg,*	Agriculture,
Hess, Lawrence Jere,	*Evanston,*	Electrical Eng'g.
Heyle, Franklin Theodore,	*Peoria,*	Electrical Eng'g.
Hill, Mary Bluebell,	*Champaign,*	Art and Design.
Hill, Nathan Richard,	*Champaign,*	Civil Eng'g.
Hively, Oscar George,	*Freeport,*	Civil Eng'g.
Hjort, Nels Reuben,	*Chicago,*	Civil Eng'g.
Hoff, Lucy Virginia,	*Chicago Heights,*	General, L. and A.
Hoffman, Paul Alexander,	*Chicago,*	Agriculture.
Hoge, Carl Henry,	*Wenona,*	Electrical Eng'g.
Holch, Ralph Edgar,	*Gilman,*	Mechanical Eng'g.
Holland, Leila,	*Pontiac,*	Household Science, Agr.
Holmquist, Fred Nelson,	*Weldon,*	Civil Eng'g.
Homs, José Maria,	*Farragona, Spain,*	Mechanical Eng'g.
Horner, Harry Sterling,	*Rockford,*	Architecture.

Houston, John Vernon,	*Chicago,*	Civil Eng'g.
Hubbart, Curtis Clay,	*Philo,*	Civil Eng'g.
Huckin, Franklin Roscoe,	*Ogden,*	Medical.
Huffman, Jessie Frances,	*Charleston,*	General, L. and A.
Hughes, Charles Herbert,	*Fairmount,*	Mechanical Eng'g.
Humphreys, Seaver Sanford,	*Atkinson,*	Business, L. and A.
Hunsaker, Andrew Franklin,	*Cobden,*	Education, L. and A.
Hunt, A Frazier,	*Chicago,*	General, L. and A.
Hunter, Alfred Hughllyn,	*Mendon,*	Civil Eng'g.
Hutson, Stella Evangeline,	*Benton,*	Household Science, Agr.
Hyndman, Ruth,	*Wyoming, O.,*	General, L. and A.
Ilg, George Martin Aloysius,	*Chicago,*	Civil Eng'g.
Ingold, Ernest Thompson,	*Appleton, Wis.,*	Mechanical Eng'g.
Irving, Edward Franklin,	*Cornland,*	Mechanical Eng'g.
Jackson, Zita Elizabeth,	*Streator,*	General, L. and A.
Jacobs, Cora Anna,	*Sterling,*	General Science.
James, Charles Austin,	*Chester,*	Civil Eng'g.
Jenkins, Edwin Milton,	*Vermont,*	Railway Eng'g.
Jensen, George Leonard,	*Chicago,*	Civil Eng'g.
Johnson, Elmer Lars,	*Springfield,*	Agriculture.
Johnson, Ray Grant,	*Decatur,*	Civil Eng'g.
Johnson, William Chance,	*Champaign,*	Civil Eng'g.
Johnston, Allen G,	*Carlyle,*	General Science.
Jones, Blanche,	*Urbana,*	General, L. and A.
Jones, Bruce Leroy,	*Wheeler, Ind.,*	Municipal Eng'g.
Jones, Frank Schall,	*Batavia,*	Mechanical Eng'g.
Jones, Truman Nathaniel,	*Chicago,*	General, L. and A.
Jordon, Myron Kendall,	*Savoy,*	Civil Eng'g.
Kaeser, Emil Frederick,	*Highland,*	Agriculture.
Kagy, John Larimer,	*Salem,*	General, L. and A.
Kays, Lucile Emma,	*Phoenix, Ari.,*	Household Science, L. and A.
Kiedaisch, Karl,	*Keokuk, Ia.,*	Civil Eng'g.
Kimball, Omer Henry,	*Methuen, Mass.,*	Electrical Eng'g.
Kincaid, John Kennedy,	*Athens,*	Agriculture.
Kiner, Henry Clyde,	*Geneseo,*	Civil Eng'g.
King, Bruce Adams,	*Plymouth,*	Agriculture.
Kirk, Elizabeth,	*Decatur,*	Household Science, L. and A.
Knapp, Warren Emerson,	*Evanston,*	Chemical Eng'g.

Knox, Samuel Miles, Jr.,	*Sheffield,*	Agriculture.
Korsmo, Amund Marius,	*Elgin,*	Civil Eng'g.
Kraft, Eugene William,	*Collinsville,*	Mechanical Eng'g.
Kratz, Ethel Gyola,	*Champaign,*	Library, L. and A.
Kreiling, Chris Herman,	*Forest City,*	Civil Eng'g.
Kressman, Fred William,	*Chicago,*	Chemical Eng'g.
Lake, Mrs. Effie Estelle,	*Champaign,*	Music.
Lamb, Carter Herbert,	*Chicago,*	Electrical Eng'g.
Lang, Le Roy,	*Monticello, Ia.,*	Agriculture.
Large, George Pence,	*Owaneco,*	Civil Eng'g.
Laughlin, Ely Vail,	*Pittsfield,*	General Science.
Lee, Charles Bopes,	*Aledo,*	Agriculture.
Lee, Gertrude Ann,	*Champaign,*	Household Science, L. and A.
Lescher, Frank Mills,	*Topeka, Kan.,*	Architecture.
Libby, Howard Chard,	*New London, Wis.,*	Municipal Eng'g.
Lindberg, Edward Ferdinand Jacob,	*Cherokee, Ia.,*	Electrical Eng'g.
Lindley, Fleetwood Herndon,	*Springfield,*	Business, L. and A.
Linn, James Howard,	*Winnetka,*	Business, L. and A.
Linton, Margie,	*Lewistown,*	General, L. and A.
Locke, Walter Coutant,	*LaSalle,*	Civil Eng'g.
Lofquist, Harry Stephen,	*Kewanee,*	Electrical Eng'g.
Lord, Maurice Frank,	*Plano,*	General, L. and A.
Lund, James Charles,	*Paxton,*	Mechanical Eng'g.
Lynn, John Elliott,	*Lockridge, Ia.,*	Business, L. and A.
McAllister, William Knowlton,	*Wenona,*	General, L. and A.
McBride, Owen Earl,	*Chicago,*	Architecture.
McCaskey, Clare Parsons,	*Chicago,*	Business, L. and A.
McConoughey, Mabel May,	*Chicago,*	Household Science, L. and A.
McCool, Charles Edward,	*Freeport,*	Civil Eng'g.
McCrea, Hugh Allen,	*Alton,*	Electrical Eng'g.
McGinnis, Harvey,	*Aurora,*	Mechanical Eng'g.
McKelvey, Arthur Wilson,	*Sparta,*	General, L. and A.
McMillan, Eugene Campbell,	*Carthage,*	Mechanical Eng'g.
Majundar, Santosh Chandra,	*Calcutta, Bengal, India,*	Agriculture.
Mann, Jessie Valentine,	*Oak Park,*	Library, L. and A.

Mann, Mary Elizabeth,	*Gilman,*	General, L. and A.
Mansfield, Warren Moore,	*Woodhull,*	Mechanical Eng'g.
Manspeaker, Lewis Vinton, Jr.,	*Champaign,*	Civil Eng'g.
Marsh, Daniel,	*Weldon,*	Civil Eng'g.
Marti, William Christoph,	*Chicago,*	Chemical Eng'g.
Martin, Arselia Bessie,	*Atlanta, Ia.,*	Arch. Decoration.
Martin, Luta,	*Oakland,*	General Science.
Maryatt, Elmer Fauntleroy,	*South Haven, Mich.,*	Electrical Eng'g.
Mason, Ralph Gardiner,	*Downers Grove,*	Agriculture.
Matthews, Bessie Glenn,	*Champaign,*	General, L. and A.
May, Helen Buckingham,	*Danville,*	General, L. and A.
May, William Wyman,	*Rochelle,*	Business, L. and A.
Meeker, Maurice Seibert,	*Peoria,*	Agriculture.
Melton, Arthur Franklin,	*Amboy,*	Chemistry.
Melton, James Leslie,	*Marion, Ky.,*	Architectural Eng'g.
Merry, Carl Emmett,	*Urbana,*	Ceramics.
Millar, Charles Ernest,	*Mattoon,*	Chemistry.
Miller, John J,	*Geneva,*	Chemical Eng'g.
Mills, Clifford Pusey,	*McNabb,*	Agriculture.
Mills, John McCuen,	*Milwaukee, Wis.,*	Ceramics.
Mojonnier, Olivier William,	*Highland,*	Chemistry.
Munroe, Courtland Leroy,	*River Forest,*	Electrical Eng'g.
Murray, Everett Bodman,	*Chicago,*	Civil Eng'g.
Musser, Frank Stanley,	*Lena,*	Civil Eng'g.
Mylrea, Thomas Douglas,	*Chicago,*	Civil Eng'g.
Nash, Charles Anson,	*Elizabeth,*	Electrical Eng'g.
Neal, Essie Edwina,	*Chicago,*	General, L. and A.
Neubauer, Ella Cora,	*Highland,*	General, L. and A.
Nickell, Lloyd Francis,	*Farmer City,*	General Science.
Nolte, Charles Beach,	*Mattoon,*	Mechanical Eng'g.
Nuckolls, Mary Elizabeth,	*Urbana,*	Household Science, Agr.
Oard, Jessie Marie,	*Kankakee,*	General, L. and A.
Oberdorfer, Henry Dixon,	*Marion,*	Architectural Eng'g.
Osborne, Isabel Mary,	*Peoria,*	General, L. and A.
Ovitz, Ernest G,	*Mineral Point, Wis.,*	Medical.
Parkin, Walter Harrah,	*Galva,*	Business, L. and A.
Parks, Harvey Alvah,	*Minonk,*	General Science.
Parks, Laura A,	*Ft. Wayne,*	General Science.
Parsons, Lura Elizabeth,	*Des Plaines,*	General Science.
Patton, Leigh Klumb,	*Chicago,*	General, L. and A.

Pearce, Ira,	*Champaign,*	Civil Eng'g.
Pease, Elva Maude,	*Harvey,*	General, L. and A.
Pellens, Louise Josephine,	*Ft. Wayne, Ind.,*	Arch. Decoration.
Penn, Albert,	*Camden, Ind.,*	Electrical Eng'g.
Perry, Edna Maude,	*Urbana,*	General Science.
Pettigrew, James Quinton,	*Harvey,*	Mechanical Eng'g.
Phillips, Lawrence Clifford,	*Streator,*	General, L. and A.
Pinkerton, Francis Elmore, Jr.,	*Urbana,*	Agriculture.
Pollard, Albert Rumble,	*Chicago,*	Chemistry.
Pollard, Henry,	*Chicago,*	Mechanical Eng'g.
Ponzer, Emma,	*Henry,*	General, L. and A.
Poorman, Amy,	*Altamont,*	Household Sci., Agr.
Pope, Charles Samuel,	*Moline,*	Electrical Eng'g.
Post, George Earl,	*Fithian,*	Business, L. and A.
Potter, Charles Pruitt,	*Hoopeston,*	Electrical Eng'g.
Powers, Mark Elmer,	*Champaign,*	Mechanical Eng'g.
Quayle, Robert Harwood,	*Oak Park,*	Mechanical Eng'g.
Railsback, Fay Dillon,	*Minier,*	Agriculture.
Railsback, Howard Marion,	*Hopedale,*	Business, L. and A.
Rainey, Edward Cleveland,	*Brubaker,*	General, L. and A.
Ramser, Charles Ernest,	*Alma,*	Civil Eng'g.
Rayner, William Horace,	*Westplains, Mo.,*	Civil Eng'g.
Rebman, Gail,	*Frederick,*	General, L. and A.
Reeder, Claude Hazlett,	*Watseka,*	Electrical Eng'g.
Rich, Mary Frederica,	*Springfield,*	General, L. and A.
Richards, Percy McClure,	*Peoria,*	Electrical Eng'g.
Richardson, Carl Barrows,	*Tampico,*	Civil Eng'g.
Ricketts, Clara Agnes,	*Champaign,*	General, L. and A.
Riesche, Robert Herman,	*Chicago,*	Civil Eng'g.
Ripley, Charles Trescott,	*Oak Park,*	Railway Eng'g.
Risser, Ralph Granville,	*Kankakee,*	Agriculture.
Robbins, Frank Anson, A.B., (*Yankton College*), 1907,	*Orient, S. Dak.,*	Electrical Eng'g.
Robbins, Glen Lewis,	*McCool, Ind.,*	Agriculture.
Robbins, Joseph,	*Congress Park,*	Electrical Eng'g.
Robert, John Alcide,	*Lacon,*	Civil Eng'g.
Robinson, Charles Jason,	*Manteno,*	Agriculture.
Robinson, Willis Singleton,	*Champaign,*	Mechanical Eng'g.
Rodgers, Robert Beam,	*Riverton,*	Electrical Eng'g.
Rohrer, Minnie Genevieve,	*Somonauk,*	General, L. and A.

Roth, Jay Frederick,	*Henry,*	Merchanical Eng'g.
Rounsville, Roy Winthrop,	*Kewanee,*	Mechanical Eng'g.
Rowe, Howard Lester,	*Elgin,*	Chemical Eng'g.
Rowland, Claude Kerlin,	*Martinsville,*	General, L. and A.
Rundles, John Clinton,	*Ft. Wayne, Ind.,*	Agriculture.
Rusk, Ralph Leslie,	*Windsor, Mo.,*	General, L. and A.
Russell, Frank Pores, A.B., (*Colgate Univ.*), 1901,	*Lacon,*	Agriculture.
Russell, Nondas Caroline,	*Chicago,*	Arch. Decoration.
Russell, Wilvan Jesse,	*Pana,*	Business, L. and A.
Samuels, Thomas Walter,	*E. St. Louis,*	General, L. and A.
Sater, Carl De Wolfe,	*Columbus, O.,*	Agriculture.
Schumacher, Ramon,	*St. Joseph, Mo.,*	Architecture.
Schwarzkopf, Florence Antoinette,	*Chicago,*	Household Science, L. and A.
Scoggins, Berenice,	*Millington,*	General, L. and A.
Seed, Essie May,	*Bridgeport,*	General Science
Seely, John Gordon,	*Oswego,*	Agriculture.
Seymour, Robert Ross,	*Henning,*	Agriculture.
Seymour, Walter Alfred,	*Henning,*	Agriculture.
Shaw, Guy Loren,	*Rockport,*	Agriculture.
Shaw, Guy Ray,	*Vinton, Ia.,*	Civil Eng'g.
Sheriff, Ralph Edwin,	*Reynolds,*	General, L. and A.
Shively, Edith Olga,	*Mahomet,*	General, L. and A.
Shrader, Frank K,	*Knoxville,*	Business, L. and A.
Simmons, Harold Hoyt,	*Blue Mound,*	Civil Eng'g.
Simpson, Francis Marion,	*Vienna,*	Agriculture.
Sinnock, Pomeroy,	*Quincy,*	Civil Eng'g.
Smith, Mabel,	*Urbana,*	General, L. and A.
Smith, Raymond Read,	*Chicago,*	Ceramics.
Snyder, James Blaine,	*Moweaqua,*	Electrical Eng'g.
Sonntag, Arthur Henry,	*Alton,*	Electrical Eng'g.
Sontag, Joseph Harold,	*Plainfield,*	Civil Eng'g.
Southwick, Joe Dare,	*Flora,*	General, L. and A.
Sparks, Ray Carlisle,	*Bushnell,*	General, L. and A.
Stanger, Otto Charles,	*Barrington,*	Chemical Eng'g.
Steele, Mae Knight,	*Bloomington,*	General, L. and A.
Stein, Milton Frederick,	*Chicago,*	Municipal Eng'g.
Stewart, Harold Wilson,	*Urbana,*	Agriculture.
Stewart, James Samuel,	*Toulon,*	Civil Eng'g.
Stewart, John Wesley,	*Evanston,*	Civil Eng'g.

Stone, Edison Harris,	*Quincy,*	Mechanical Eng'g.
Stout, John Philemon,	*Glenarm,*	Agriculture.
Strauch, Clara Marie,	*Chadwick,*	Household Science, L. and A.
Strauch, Hilda Louise,	*Chadwick,*	Household Science, L. and A.
Streff, Albert Paul,	*Chicago,*	Civil Eng'g.
Sumay, Oscar Jose,	*Buenos Ayres, Argentina,*	Electrical Eng'g.
Swett, William Claude,	*Elgin,*	Civil Eng'g.
Swisher, Charles Lee,	*Wellington,*	Mathematics, S.
Swisher, William James,	*Mendota,*	Civil Eng'g.
Tagore, Rathindra Nath,	*Balpore, India,*	Agriculture.
Talbot, Kenneth Hammett,	*Urbana,*	Civil Eng'g.
Teal, Lois Leota,	*Arcadia, Ind.,*	General, L. and A.
Tear, Herbert Lloyd,	*Chicago,*	Electrical Eng'g.
Thomas, Warren Wilkinson,	*Newman,*	Civil Eng'g.
Thompson, Samuel Matthew,	*Harrisburg,*	General, L. and A.
Thomson, Andrew,	*Chicago,*	Mechanical Eng'g.
Thurston, Lena May,	*Winnetka,*	Household Science, S.
Tobey, Harold Eugene,	*Galesburg,*	Civil Eng'g.
Turnock, Lawrence Charles,	*Elkhart, Ind.,*	Chemical Eng'g.
Van Dorsten, Josephine,	*Champaign,*	General Science.
Van Hook, Forest Clyde,	*Mt. Pulaski,*	General Science.
Voorhess, Kathryn Craig,	*Bushnell,*	General, L. and A.
Vosburgh, Frank Jones,	*Oak Park,*	Mechanical Eng'g.
Waddell, Charles Archibald,	*Princeton,*	Mechanical Eng'g.
Waddell, James Vance,	*Taylorville,*	Municipal Eng'g.
Wagner, Robert Charles, Jr.,	*Champaign,*	Civil Eng'g.
Walker, Charles M,	*St. Joseph,*	Mechanical Eng'g.
Walledom, Jesse Jacobsen,	*Chicago,*	Civil Eng'g.
Walsh, William Joseph,	*Monticello,*	Civil Eng'g.
Weaver, Maud,	*Harrisburg,*	General, L. and A.
Weiss, John Frank,	*Aurora,*	Mechanical Eng'g.
Westlund, Albert Frank,	*Chicago,*	Mechanical Eng'g.
White, Burt F,	*Longview,*	Agriculture.
White, Frank,	*Shelbyville,*	Agriculture.
Whitehead, Otis Gunn,	*LaGrange,*	Civil Eng'g.
Wiener, Charles Arthur,	*Champaign,*	Municipal Eng'g.
Williams, Ceil Edwin,	*Illiopolis,*	Electrical Eng'g.
Williams, Roger Crawford,	*Grand Ridge,*	Chemical Eng'g.

Williams, Warren Stephen,	*Champaign,*	Chemistry.
Williamson, Maude,	*Houston, Texas,*	General, L. and A.
Wilson, Lucy Gray,	*Washington, Ia.,*	Library, L. and A.
Withycombe, Robert, B.S., (*Oregon Agr. College*), 1901,	*Corvallis, Oregon,*	Agriculture.
Wolf, John Emerson,	*Lanark,*	Mechanical Eng'g.
Wolfe, Irmagard Huldah,	*Polo,*	General, L. and A.
Woodworth, Harry C,	*Chicago,*	Agriculture.
Wray, Robert Charles,	*Ursa,*	Agriculture.
Wright, Sidney Barber,	*Rock Falls,*	Electrical Eng'g.
Wussow, August Frank Daniel,	*Chicago,*	Chemical Eng'g.
Yehling, Albert Charles,	*Sparta,*	Electrical Eng'g.
Yunk, Nellie,	*Sandoval,*	General, L. and A.
Zahrobsky, Edward Frank,	*Chicago,*	Architectural Eng'g.
Zearing, Joseph Hazen,	*Princeton,*	Business, L. and A.
Zehner, Hugo,	*Belleville,*	Mechanical Eng'g.
Zilly, Marie Louise,	*Champaign,*	General, L. and A.
Zink, Herbert Charles,	*St. Clair, Mich.,*	Mechanical Eng'g.

SOPHOMORES

Abbott, Alfred Nalle,	*Saltillo, Mexico,*	Municipal Eng'g.
Abbott, Elizabeth Mabelle,	*Hoopeston,*	General, L. and A.
Abbott, Frances Dorcas,	*Morrison,*	General Science.
Alexander, Alfred,	*Chicago,*	Architecture.
Altekruse, Ira Blair,	*Urbana,*	Mechanical Eng'g.
Anderson, Harold Brother,	*Joliet,*	Civil Eng'g.
Anderson, Russell Adams McCurdy,	*Bloomington,*	Electrical Eng'g.
Applegate, Arthur Leslie,	*Atlanta,*	Agriculture.
Arends, Fred George,	*Melvin,*	Agriculture.
Argüelles, Angel Severo,	*Bantanges, P. I.,*	Agriculture.
Armstrong, Paul W,	*Decatur,*	General Science.
Averill, William Armitage, A.B., (*Univ. of Chicago*), 1902,	*Ft. Wayne, Ind.,*	Ceramics.
Avey, Daniel Manning,	*Mattoon,*	Civil Eng'g.
Badger, Henry Stillman,	*Elgin,*	Electrical Eng'g.
Bailey, Ernest Henning,	*Geneva,*	Electrical Eng'g.
Baird, Mrs. Bertha Salsich,	*Cincinnati, O.,*	Library, L. and A.

Balis, William Henry,	*St. Charles,*	Agriculture.
Barkley, Guy Carleton, Jr.,	*Carlyle,*	Civil Eng'g.
Barry, Pierce,	*Pontiac,*	Mechanical Eng'g.
Barton, Christine Dodge,	*Champaign,*	General, L. and A.
Bashen, George Bergen,	*Bowen,*	Mechanical Eng'g.
Bauer, Otto Anton,	*Horton, Kansas,*	Architecture.
Baum, Benjamin Franklin,	*Phoenix, Ari.,*	Architectural Eng'g.
Bean, Ralph Howard,	*Blue Mound,*	Electrical Eng'g.
Bear, Louis Raymond,	*Ludlow,*	Business, L. and A.
Beatty, Edwin Morris,	*Taylorville,*	Agriculture.
Beemer, Alexander William,	*Compton,*	Chemical Eng'g.
Bell, Charles Manley,	*Tolono,*	Civil Eng'g.
Benjamin, Louise Pearl,	*Danville,*	Music.
Bennett, Frank Myer,	*Chicago,*	Mechanical Eng'g.
Benson, Bertha Endora,	*Moline,*	General, L. and A.
Bentz, George William,	*Chicago,*	Civil Eng'g.
Berger, Adda Elizabeth,	*Dolton Station,*	General, L. and A.
Berkema, Ira John,	*Onarga,*	General, L. and A.
Bernreuter, Walter,	*Mt. Olive,*	Electrical Eng'g.
Berns, Max Arnold,	*Chicago,*	Civil Eng'g.
Berolzheimer, Hannah Beulah,	*Chicago Heights,*	General, L. and A.
Beveridge, Charles Eden,	*Casner,*	Civil Eng'g.
Black, Charles Day,	*Plymouth,*	Electrical Eng'g.
Black, Grace Josephine,	*Urbana,*	General, L. and A.
Bloomfield, Mat,	*Oklahoma City, Okla.,*	Medical.
Bollman, Minnie Joanna,	*Champaign,*	General, L. and A.
Bond, George Thomas,	*Charleston,*	Agriculture.
Bornmann, John Henry, Jr.,	*Quincy,*	Chemistry.
Boston, Frantz William,	*Yorkville,*	General Science.
Brady, Joseph Louis,	*Mooar, Ia.,*	Architectural Eng'g.
Brakensick, Jessie Delight,	*Quincy,*	General, L. and A.
Braley, Ross Preston,	*Harvey,*	Electrical Eng'g.
Bramhall, Ralph Roger,	*Michigan City, Ind.,*	Architectural Eng'g.
Bregger, Thomas,	*Rock Island,*	Agriculture.
Briggs, Strother Ambrose,	*Mimer,*	Agriculture.
Brooks, Henry Morgan,	*Urbana,*	Electrical Eng'g.

Broughten, May Alice,	*Marysville, Kan.,*	General, L. and A.
Brown, Horace Trowbridge,	*Quincy,*	Civil Eng'g.
Brownfield, Lelah,	*Urbana,*	General, L. and A.
Browning, Alta Mae,	*Rushville,*	General, L. and A.
Bryan, Arthur Lynn,	*Forest City, Ia.,*	Medical.
Buchanan, Wilbur L,	*Lawrenceville,*	General, L and A.
Buchholz, Roscoe Caleb,	*Melvin,*	Business, L. and A.
Buffum, Ruth Irene,	*Taylor Ridge,*	General, L. and A.
Buker, Edward,	*Chicago,*	Mechanical Eng'g.
Bullock, Edwin Corliss Atlee,	*Carbondale,*	Architecture.
Bumann, Edna,	*Bunker Hill,*	Art and Design.
Bunn, Charles Montgomery,	*Chicago,*	Electrical Eng'g.
Bunnelle, Paul Allen,	*Quincy,*	Civil Eng'g.
Burbidge, Eugene Leslie,	*Quincy,*	Electrical Eng'g.
Burnell, Kingsley Abner,	*Joliet,*	Civil Eng'g.
Burns, Cyril Agard,	*Fairbury,*	Business, L. and A.
Butzer, Clarence David,	*Hillsdale,*	Mechanical Eng'g.
Buzick, John W,	*Champaign,*	Civil Eng'g.
Calder, Ward Allan,	*LaHarpe,*	Agriculture.
Calhoun, Helen Vera, B.L.S., 1905,	*Champaign,*	General, L. and A.
Campbell, Kent,	*LaHarpe,*	Agriculture.
Carlisle, Gower Nathan,	*Geneva,*	Civil Eng'g.
Carson, Harry Young,	*Danville,*	Municipal Eng'g.
Carter, Roy Rudy,	*Jacksonville,*	Civil Eng'g.
Caul, Roy Clifton,	*Chicago,*	Civil Eng'g.
Chamberlain, Lucius Orville,	*Champaign,*	Railway Eng'g.
Channel, Clyde Wamsley,	*Peru,*	Electrical Eng'g.
Chapin, William Leber,	*Springfield,*	Electrical Eng'g.
Chipps, Earl C,	*Sullivan,*	Agriculture.
Christensen, Camillo Chopin,	*Peoria,*	Civil Eng'g.
Clark, Richard Wagner,	*Carthage,*	Agriculture.
Clarke, Ethel,	*Noblesville, Ind.,*	Household Science, S.
Clendenin, Clarence Rees,	*Springfield,*	General, L. and A.
Clow, Raymond Delos,	*Crystal Lake,*	Mechanical Eng'g.
Coe, Harry Harmon,	*Dixon,*	Electrical Eng'g.
Coffin, Francis Albert,	*Salem,*	Electrical Eng'g.
Cogswell, George Owen,	*Champaign,*	Architectural Eng'g.
Cogswell, Robert Coman,	*Champaign,*	Architectural Eng'g.

Coleman, William Francis,	*Chicago,*	Mechanical Eng'g.
Colvin, Albert Adalbert,	*Wheaton,*	Civil Eng'g.
Compton, Richard Osborne,	*Chicago,*	Agriculture.
Connard, Arthur Foster,	*Decatur,*	Mechanical Eng'g.
Connelly, Martin Francis,	*Chicago,*	Civil Eng'g.
Connelly, Sarah Ann,	*Hume,*	General, L. and A.
Cooper, Agnes Bouton,	*Kansas City, Mo.,*	General, L. and A.
Cooper, George Alfred,	*Aurora,*	Mechanical Eng'g.
Cornwell, Earl Zink,	*Paris,*	Civil Eng'g.
Corrie, James Robert,	*St. Francisville,*	Agriculture.
Cox, Edna Elizabeth,	*Sheridan, Ind.,*	General, L. and A.
Cox, Kenneth Hiram,	*Moline,*	Architectural Eng'g.
Cross, Wallace Jackson,	*Campbell Hill,*	Mechanical Eng'g.
Crow, Barbara,	*Springfield,*	General, L. and A.
Cullings, Ross Elmer,	*Elmwood,*	Electrical Eng'g.
Cummings, Preston Wirum,	*Sheffield,*	Mechanical Eng'g.
Cutler, Watts Cyrus,	*Oswego,*	Agriculture.
Dale, William Wilbur,	*Blue Island,*	General, L. and A.
Dallenbach, Karl M.	*Champaign,*	General, L. and A.
Dallenbach, Louis Edwin,	*Champaign,*	Music.
Danielson, Willis Chester,	*Leland,*	Civil Eng'g.
Davis, Carroll Harris,	*Indianapolis, Ind.,*	Civil Eng'g.
Davis, Harry Fulton,	*Keokuk, Ia.,*	Architectural Eng'g.
Davis, Hugh Youtsey,	*Lincoln,*	Architectural Eng'g.
Day, Warren William,	*Peoria,*	Architecture.
Deuchler, Walter Edward,	*Aurora,*	Civil Eng'g.
Devine, Robert Philip,	*Chester,*	Civil Eng'g.
Dewitt, Emma Ethel,	*Broadlands,*	Household Science, L. and A.
Dexter, Grace Ella,	*Urbana,*	General, L. and A.
Dillon, Edward Leland,	*Urbana,*	Agriculture.
Dobbins, John Alexander,	*Lake Anors, S. Dak.,*	Mechanical Eng'g.
Doerr, Robert John,	*Chicago,*	Architecture.
Douglas, Ethel Leila,	*Chicago,*	Library, L. and A.
Doyle, Edgar Dwight,	*Bloomington,*	Electrical Eng'g.
Dumond, Louis August,	*Earlville,*	Civil Eng'g.
Dumser, Leo Alfred,	*Elgin,*	Railway Eng'g.
Duncan, Landale William,	*Princeton, Ind.,*	Agriculture.
Dunlap, Andrew Melvin,	*Aledo,*	Electrical Eng'g.

Dunlap, Ernest Albert,	*Aledo,*	Electrical Eng'g.
Dunlap, Robert Muratt,	*Savoy,*	Civil Eng'g.
Dunsheath, Leroy Morrell,	*Aurora,*	Mechanical Eng'g.
East, Warren Errett,	*Maroa,*	Electrical Eng'g.
Easterbrook, Harry David,	*Saybrook,*	Electrical Eng'g.
Edelstein, Clarence Isidore,	*Chicago,*	Electrical Eng'g.
Edwards, Roy Vincent,	*Urbana,*	Civil Eng'g.
Eells, Willard Clark,	*Mazon,*	Civil Eng'g.
Eide, Randolph,	*Lee,*	General, L. and A.
Eisenmayer, Arthur Wesley, Jr.,	*Granite City,*	General, L. and A.
Ellis, Charles Lyman,	*Chicago Heights,*	Mech. Eng'g.
Ellison, Charles Courtney,	*Alton,*	General, L. and A.
Ellsberry, Lloyd Kirk,	*Mason City,*	General, L. and A.
Endsley, Frederick LeRoy,	*Milford,*	Civil Eng'g.
vonEngelken, Marie Jeanette,	*Dubuque, Ia.,*	General, L. and A.
Enger, Thorbjorn Kjus,	*Los Angeles, Cal.,*	Electrical Eng'g.
Engstrom, Charles Ludwig,	*Peoria,*	Municipal Eng'g.
Erikson, Clifford Erick Joseph,	*Aurora,*	Civil Eng'g.
Eymann, Joe,	*Graymount,*	Mechanical Eng'g.
Fablinger, William Raymond,	*Elizabeth,*	Architectural Eng'g.
Fairbrother, Katharine May,	*East St. Louis,*	General, L. and A.
Ferguson, Irwin Glenn,	*Urbana,*	Civil Eng'g.
Finkenbinder Walter Edison,	*Kent,*	General Science.
Fischer, Arvin William,	*Bensenville,*	Agriculture.
Fishback, William Murphy,	*Marshall,*	General, L. and A.
Fisher, Robert Forrest,	*Gibson City,*	Electrical Eng'g.
Fizzell, Robert Bruce,	*Taylorville,*	General, L. and A.
Flanders, Harvey Harrison,	*Glencoe,*	General, L. and A.
Flatt, Harrison Obiah,	*Carrollton,*	Medical.
Fornof, John Renchin,	*Streator,*	Business, L. and A.
Foster, Joseph Kyle,	*Mt. Carmel,*	General, L. and A.
Franken, Ewell Gerdes,	*Chandlerville,*	Medical.
Fredenhagen, Victor Byron,	*Downers Grove,*	Civil Eng'g.
Freeman, Paul Woodie,	*Decatur,*	Electrical Eng'g.
Fuller, Leon Elmer,	*Elgin,*	Chemistry.
Gaby, Lewis Chancee,	*Litchfield,*	Civil Eng'g.
Gallaher, Bessie Estella,	*Homer,*	General, L. and A.
Ganguley, Nagendra Nath,	*Barisal, Bengal, India,*	Agr.
Garland, Frank Dean,	*Champaign,*	Ceramics.
Garrett, Leona Belle,	*Momence,*	Household Sci., Agr.

Garrett, Ray,	*E. St. Louis,*	General, L. and A.
Garza, Juan I,	*Saltillo, Mexico,*	Electrical Eng'g.
Gaston, Omar,	*Kell,*	Architectural Eng'g.
Gates, Orus Ethan,	*Tuscola,*	Electrical Eng'g.
Gatlin, Lillian,	*Waukegan,*	General, L. and A.
Gay, Harry Guilford,	*Ottawa,*	Electrical Eng'g.
Genung, Ivaloo,	*Rantoul,*	Household Science, Agr.
Gibbons, Alice May,	*Gardner,*	General, L. and A.
Gibbons, Earl Espey,	*Hoopeston,*	Mechanical Eng'g.
Gibbs, Fred,	*Lincoln,*	Chemistry.
Gilman, George Andrew,	*Harristown,*	Agriculture.
Gilstrap, Ray Mathias,	*Tacoma, Wash.,*	Architecture.
Glenn, William Meharry,	*Champaign,*	General, L. and A.
Goff, Cicely Sarah,	*Rantoul,*	General, L. and A.
Goodenough, Arthur Sherman,	*Urbana,*	Architecture.
Goodman, Ezra,	*Chicago,*	Electrical Eng'g.
Goodman, Lulu,	*Champaign,*	General, L. and A.
Goodman, Marion Frances,	*Chicago,*	General, L. and A.
Goodspeed, Nathan Lee,	*Joliet,*	Railway Administration.
Grannis, Frank Cravens,	*Chicago,*	Agriculture.
Grannis, Laurence Royce,	*Chicago,*	Civil Eng'g.
Grant, Will Chalmers,	*Springfield,*	General, L. and A.
Green, Howard S,	*Sterling,*	Municipal Eng'g.
Gregory, Lenna Mabel,	*Mowcaqua,*	General, L. and A.
Griewank, Arthur Carl,	*Michigan City, Ind.,*	Civil Eng'g.
Griffin, Dwight,	*Clinton,*	Electrical Eng'g.
Griffith, Rolland Wheelock,	*Granite City,*	General, L. and A.
Griffiths, Walter Milo,	*Pontoosuc,*	Mechanical Eng'g.
Groener, Emil Carl,	*Batavia,*	Civil Eng'g.
Groweg, Edward Adolph, Jr.,	*Defiance, Ohio,*	Civil Eng'g.
Hager, Earl Norman,	*Dwight,*	Business, L. and A.
Hall, Chester Irving,	*Chicago,*	Electrical Eng'g.
Hammer, Raymond Franklin,	*Champaign,*	Chemical Eng'g.
Hanley, James Thomas,	*East St. Louis,*	Civil Eng'g.
Hanzlik, Edward John,	*Chicago,*	Civil Eng'g.
Harmon, Murvin Terry,	*Lebanon,*	Agriculture.
Hanson, Herman Ludwig,	*Paxton,*	Mechanical Eng'g.
Harris, Ralph Cohn,	*Chicago,*	Electrical Eng'g.
Harrison, Benjamin Harrison,	*Danville,*	Chemical Eng'g.
Harrison, Donald Frederic,	*Urbana,*	Electrical Eng'g.
Haskell, Walter Millard,	*Sterling,*	Mechanical Eng'g.

Haskett, Paul Edwin,	*Baxter Springs, Kan.,*	Medical
Hassenstein, Carl Frederic,	*Chicago,*	Architectural Eng'g.
Hattrem, Warner Madison,	*Marseilles,*	Chemical Eng'g.
Healy, Charles Henry,	*Rochelle,*	Agriculture.
Hedgcock, William Everett,	*Plymouth,*	Agriculture.
Heimbeck, Walter Carl,	*Rock Island,*	Architectural Eng'g.
Hendricks, Lester Blaine,	*Sterling,*	Electrical Eng'g.
Henion, Myra Frances,	*Fairbury,*	Music.
Henne, George Calvin,	*Metropolis,*	Mechanical Eng'g.
Henshaw, Amy,	*Harrisburg,*	General, L. and A.
Herdman, Margaret May,	*Winnetka,*	Household Sci., Sci.
Herndon, Obed Lewis,	*Springfield,*	Business, L. and A.
Heuman, Alma Bertha Caroline,	*Elgin,*	General, L. and A.
Hickman, Lucie Pearl,	*Hoopeston,*	General, L. and A.
Highfill, Inez Feltz,	*Urbana,*	General, L. and A.
Hight, Eugene Stuart,	*Delavan,*	Electrical Eng'g.
Hill, Fanny Wilder,	*Champaign,*	General, L. and A.
Hill, Harry S,	*Paxton,*	Chemistry.
Hill, Nehemiah William,	*Bloomington,*	Chemical Eng'g.
Hinman, Lawrence D,	*Champaign,*	General, L. and A.
Hinrichsen, George Charles,	*Davenport, Ia.,*	Railway Eng'g.
Hitch, Dorris Nelson,	*Champaign,*	General, L. and A.
Hodgson, Jonathan Huntoon Samuel,	*Moline,*	Mechanical Eng'g.
Hogan, Frank John,	*Bridgeport, Conn.,*	Civil Eng'g.
Holland, James Andrew,	*Rockford,*	Civil Eng'g.
Hollister, Ethel Annetta,	*Champaign,*	General, L. and A.
Hood, Joseph Douglas,	*Chicago,*	General Science.
Hopkins, Robert Edward,	*Delavan,*	Agriculture.
Horine, Karl,	*Urbana,*	Electrical Eng'g.
Horn, Benjamin Albert,	*Chicago,*	Architecture.
Hoskins, Daniel Tilden,	*E. Las Vegas, N.M.,*	Business, L. and A.
Howe, Harvey William,	*Chicago,*	Electrical Eng'g.
Howe, Jack Ludlam,	*Chicago,*	Railway Eng'g.
Howser, Edith Beryl,	*Urbana,*	Music.
Hudelson, Charles Le Roy,	*Benton,*	General Science.
Hughes, Alexander Gibbon,	*Gurnee,*	Agriculture.
Hull, Anna Leo,	*Martinsville,*	General, L. and A.
Hull, Walker Francis,	*Martinsville,*	General, L. and A.
Humphrey, Gertrude Leila,	*DuQuoin,*	General, L. and A.

Huntley, Oscar Hubbard,	*Buda,*	Agriculture.
Hussey, Alfred,	*Williamsville,*	Electrical Eng'g.
Hussey, Edith Hirrel,	*Princeton,*	Household Science, L. and A.
Hussey, Stephen Sawyer,	*Princeton,*	Agriculture.
Hyde, Wilbur Gilpin,	*Champaign,*	Architecture.
Iehl, Edwin Albert,	*Melvin,*	General, L. and A.
Ingram, Harold Stuart,	*Chicago,*	Chemical Eng'g.
Irwin, Jay Lawrence,	*Ottawa,*	Civil Eng'g.
Isaacson, Roger Spake,	*Princeton,*	Chemistry.
Jacobsen, Charles Henry,	*Urbana,*	Mechanical Eng'g.
James, Helen Dickson,	*Urbana,*	General, L. and A.
Janda, James Frank,	*Belci, Bohemia,*	Mech. Eng'g.
Jehle, Ferdinand,	*Highland,*	Mechanical Eng'g.
Jennings, Charles Spencer,	*Little Rock, Ark.,*	Electrical Eng'g.
Jervis, Paul Frederick,	*Champaign,*	Mechanical Eng'g.
Jeter, George Guy,	*Paris,*	Electrical Eng'g.
Johnson, Ebert Burdick,	*Normal,*	Civil Eng'g.
Johnson, Esley Ebenezer,	*Moline,*	Business, L. and A.
Johnson, George Henry,	*Crystal Lake,*	Civil Eng'g.
Johnson, James Mount,	*Vincennes, Ind.,*	Civil Eng'g.
Johnson, Lloyd Elmo,	*Normal,*	Mechanical Eng'g.
Johnstone, Arthur Lea,	*Alton,*	Electrical Eng'g.
Jones, Lloyd George,	*Joliet,*	Agriculture.
Jones, Opal Rogers,	*Urbana,*	General, L. and A.
Jones, Raymond Harrison,	*St. Joseph,*	Architecture.
Jones, Walter Raymond,	*Redmon,*	Medical.
Jordan, Oscar Joseph,	*Chicago,*	Mechanical Eng'g.
Judd, Clara Garnet,	*Urbana,*	General, L. and A.
Juergens, Elmer,	*Chicago,*	Civil Eng'g.
Kaar, Walter Jacob,	*Princeton,*	Electrical Eng'g.
Kaempen, Laura Elonore,	*Quincy,*	General, L. and A.
Kailer, Frank Spencer,	*Oregon,*	Electrical Eng'g.
Kalkbrenner, Myrtle Carrie Louise,	*Centralia,*	Household Sci., Agr.
Kautz, Paul,	*Moweaqua,*	Civil Eng'g.
Keller, Roy Herman Louis,	*Quincy,*	Agriculture.
Kerker, Harry Edward,	*Urbana,*	General, L. and A.
Kerker, Verna,	*Urbana,*	General, L. and A.
Kimbell, Roy Spencer,	*Chicago,*	Municipal Eng'g.

Kirk, Ethel Clare,	*Taylorville,*	Household Sci., Agr.
Kirkpatrick, Robert Judson,	*Benton,*	Mechanical Eng'g.
Kleinbeck, Stella Pauline,	*Litchfield,*	General, L. and A.
Kneberg, Goldie Minnie,	*Moline,*	Household Sci., Agr.
Koerper, Herman William,	*Mendota,*	Medical.
Koestner, William,	*Melvin,*	Civil Eng'g.
Krebs, Samuel Edward,	*Belleville,*	Electrical Eng'g.
Krueger, Ernest Theodore,	*Blue Island,*	General, L. and A.
Kuhl, William Prentice,	*Lincoln,*	Business, L. and A.
Kummer, Ludwig,	*Chicago,*	Electrical Eng'g.
Kunz, Walter,	*Chicago,*	Agriculture.
Landon, Julius,	*New York,*	Agriculture.
Larson, Harry Peter,	*Paxton,*	Business, L. and A.
Larson, William Henry,	*Paxton,*	Mechanical Eng'g.
Lasher, Herbert,	*Griffin Corners, N.Y.,*	Business, L. and A.
Laurence, Albert Frederick,	*Paxton,*	General, L. and A.
Lawrence, Charles Wesley,	*Rantoul,*	Civil Eng'g.
Leas, Mildred,	*Urbana,*	General, L. and A.
Lehman, Ruel Forrest,	*Sidney,*	Electrical Eng'g.
Leonard, Myrl,	*Anna,*	Medical.
Leslie, Elmer Archibald,	*Tolono,*	General, L. and A.
LeSure, Charles Samuel,	*Olney,*	Agriculture.
Levinson, Lazarus,	*Chicago,*	Civil Eng'g.
Levis, Charles Parker,	*Alton,*	Business, L. and A.
Lewis, Edward W,	*Aledo,*	Electrical Eng'g.
Lewis, Goodrich Quigg,	*Wheaton,*	Mechanical Eng'g.
Lewis, Lucy Elfa,	*Danville,*	General, L. and A.
Liitt, Leon Benjamin,	*Rock Island,*	Civil Eng'g.
Linbarger, Mariea Leona,	*Champaign,*	General Science.
Lindberg, Irving August Isaac,	*Cherokee, Iowa,*	General, L. and A.
Linder, Grace,	*Urbana,*	Household Sci., Agr.
Lindley, Harold Ferguson,	*Mattoon,*	General, L. and A.
Little, LeRoy Lewis,	*Tolono,*	General, L. and A.
Logan, Ray Evan,	*Elizabeth,*	Medical.
Lord, Chester Arthur,	*Chicago,*	Civil Eng'g.
Lord, Walter Eugene,	*Chicago,*	Civil Eng'g.
Love, Chase Whitney,	*Urbana,*	Business, L. and A.
Lovins, Foy Otto,	*Windsor,*	General, L. and A.
Lowe, Robert,	*Phoenix, Ari.*	Agriculture

Lurie, Arnold Nathaniel,	*Chicago,*	Mechanical Eng'g.
Lyon, Earl Wallace,	*Yorkville,*	Civil Eng'g.
McAdow, Eugene Finley,	*Chicago,*	Mechanical Eng'g.
MacBride, Edward Everett,	*Chicago,*	Architectural Eng'g.
McCabe, Lee Vincent,	*Chicago,*	Civil Eng'g.
McClurg, Lola,	*Urbana,*	General, L. and A.
McCollister, Marcus Sanders,	*White Hall,*	Civil Eng'g.
McCord, Ralph Nichols,	*Bloomington,*	General, L. and A.
McCormack, Charles Eugene,	*Chicago,*	Electrical Eng'g.
McCulloch, Harry Weber,	*Kewanee,*	Mechanical Eng'g.
MacDonald, William Towner,	*St. Charles,*	Mechanical Eng'g.
McDonough, John,	*Urbana,*	Mechanical Eng'g.
McElherne, James Charles,	*Rock Island,*	Civil Eng'g.
McElhiney, Lee Allen,	*Kenney,*	Civil Eng'g.
McHugh, Grover,	*ElPaso,*	Electrical Eng'g.
McIntyre, John Verner,	*Newman,*	Business, L. and A.
McKeever, William Earl,	*Gibson City,*	Agriculture.
Mackey, Floyd James,	*Genoa,*	Mechanical Eng'g.
McKinney, Lilabel,	*Gifford,*	General, L. and A.
McLean, Walter Raymond,	*Coffeen,*	Business, L. and A.
McMillan, James Edwin,	*Danville,*	Mechanical Eng'g.
McMillan, Joseph Warren,	*Carthage,*	Agriculture.
Mandler, Henry Emil,	*Bloomington,*	Chemical Eng'g.
Mangold, Charles Hugh,	*Anna,*	Civil Eng'g.
Mann, George Dale,	*Rossville,*	Agriculture.
Manock, Wilbur Roy,	*Farmer City,*	Civil Eng'g.
Martin, Charles Lee,	*Canton,*	Agriculture.
Mason, Roy Skinner,	*Tacoma, Wash.,*	Architecture.
Mathews, George Bonney,	*Potsdam, N. Y.,*	Electrical Eng'g.
Mathewson, John Warne,	*Elburn,*	Electrical Eng'g.
Mathis, Victor Alvin,	*Sidney,*	Mechanical Eng'g.
Matousek, Otto James,	*Chicago,*	Architectural Eng'g.
Matthews, Martha Marie,	*Onarga,*	Household Science, Agr.
Mattis, Ida Levering,	*Champaign,*	Music.
Mauel, Leonard,	*Chicago,*	Civil Eng'g.
Mautz, Charlie Bail,	*Watson,*	Civil Eng'g.
May, Harry Oscar,	*Chicago,*	Electrical Eng'g.
Meek, Alva Brace,	*Carrollton,*	Agriculture.
Megran, Herbert Brown,	*Harvard,*	Business, L. and A.
Miles, Lois Maia,	*Bushnell,*	General, L. and A.
Miller, Bert Andrew,	*Forrest,*	Mechanical Eng'g.

Miller, Edwin Morton,	*Geneva,*	Medical.
Miller, Levi Wesley,	*Urbana,*	Mechanical Eng'g.
Miller, Paul Campbell,	*Urbana,*	Architectural Eng'g.
Miller, William Christian,	*Sycamore,*	Civil Eng'g.
Milligan, Helen Margaret,	*Oak Park,*	General, L. and A.
Miner, Leslie Earl,	*Guthrie,*	Civil Eng'g.
Mitchell, Charles Daniel,	*Chicago,*	Chemical Eng'g.
Moore, Genevieve,	*Urbana,*	General Science.
Moore, James Gregory,	*Lexington,*	General, L. and A.
Moore, Mary Rebecca,	*Tolono,*	General, L. and A.
Morgan, Alta Hattie,	*Aledo,*	Household Science, L. and A.
Morris, George,	*Congress Park,*	Electrical Eng'g.
Morris, George Hugh,	*Peoria,*	Civil Eng'g.
Morris, Minnie Ellen,	*Champaign,*	General, L. and A.
Mosby, Benjamin Harrison,	*Carlinville,*	General, L. and A.
Moschel, Herman,	*Chenoa,*	Mechanical Eng'g.
Mosiman, Joseph Edward,	*Morton,*	Architecture.
Mottier, Charles Halvatious,	*Gibson City,*	Civil Eng'g.
Mourning, Mary Katharine,	*Plymouth,*	General, L. and A.
Mueller, Clarence William,	*Chicago,*	Chemical Eng'g.
Mullen, Cirilo Joseph,	*Buenos Ayres, Arg.*	Civil Eng'g.
Munsen, Chester Wright,	*Morris,*	Mechanical Eng'g.
Murdock, Mrs. Ina Indus,	*Urbana,*	General, L. and A.
Murphy, Chalmer Worch,	*Urbana, Ohio,*	Business, L. and A.
Muschler, Henry Carl William,	*Aurora,*	Mechanical Eng'g.
Musselman, Thomas Edgar,	*Quincy,*	General, L. and A.
Myers, Harold Lorraine,	*Hinsdale,*	Business, L. and A.
Myrick, George Harold,	*Crete,*	Electrical Eng'g.
Naffziger, Oliver Hukill,	*Dwight,*	General, L. and A.
Nelson, Anton Leonard,	*Gibson City,*	Electrical Eng'g.
Nelson, Saidee Esther,	*Manlius,*	General, L. and A.
Newlin, Frank Enoch,	*Robinson,*	General, L. and A.
Nicholas, Earnest Edward,	*Rock Island,*	Mechanical Eng'g.
Nihan, Robert Edward Joseph,	*Harvard,*	Electrical Eng'g.
Niver, Margaret Louise,	*Muscatine, Ia.,*	Architecture.
North, William Atkinson,	*White Hall,*	Civil Eng'g.
Norton, William Eben,	*Pontiac,*	Business, L. and A.
O'Donnell, Thomas Edward,	*Olney,*	Electrical Eng'g.
O'Hern, Thomas Leo,	*St. Augustine,*	Mechanical Eng'g.
Onken, George Frederick,	*Gibson City,*	Agriculture.

Orear, George Julius,	*Jacksonville,*	Agriculture.
Osborn, John Milton,	*Butler,*	Civil Eng'g.
Osburn, Ole Lloyd,	*Wilmington,*	Business, L. and A.
Ostrom, Paul Morris,	*Lockport,*	Architecture.
Overholzer, Martin Jacob,	*Sterling,*	Electrical Eng'g.
Overmeier, Melvern D,	*Mt. Auburn,*	Electrical Eng'g.
Owen, Rena Celesta,	*Plano,*	General, L. and A.
Paisley, Ada Mae,	*Urbana,*	General, L. and A.
vanPappelendam, Bernard Carlyle,	*Keokuk, Ia.,*	Mechanical Eng'g.
Parcel, Herbert Leonard,	*Westfield,*	Electrical Eng'g.
Park, Vance Wallace,	*Champaign,*	Business, L. and A.
Parker, Francis Leroy,	*Elgin,*	Civil Eng'g.
Parks, Louisa Elizabeth,	*Minonk,*	Music.
Parr, Elizabeth,	*Urbana,*	General, L. and A.
Parrett, Florence Mae,	*Homer,*	General, L. and A.
Patton, David Collins,	*Chicago,*	Mechanical Eng'g.
Patton, Matthew Christian,	*Divernon,*	Agriculture.
Paul, Talbert Walter,	*Peoria,*	Electrical Eng'g.
Payne, Albert Henry,	*Bangall, N. Y.,*	Ceramics.
Peadro, Earl D,	*Sullivan,*	Civil Eng'g.
Pearson, Pierre Eric Conrad,	*Perry, Ia.,*	Architectural Eng'g.
Pegram, Walter Alvin,	*Carrollton,*	Medical.
Peine, Paul Charles,	*Minier,*	Business, L. and A.
Pemberton, Carlysle,	*Oakland,*	Electrical Eng'g.
Pence, Owen Earle,	*Hamilton,*	General, L. and A.
Penn, Henry,	*Chicago,*	Civil Eng'g.
Penn, John George,	*Morris,*	Electrical Eng'g.
Pennebaker, Eugene Strode,	*Cairo,*	Civil Eng'g.
Percival, Olive Belle,	*Urbana,*	Household Science, Agr.
Perkins, Albert Monroe,	*Champaign,*	Business, L. and A.
Perring, Vere Dorothy,	*Champaign,*	General, L. and A.
Pershall, Edward Estes,	*E. St. Louis,*	Chemical Eng'g.
Petersen, Harry Viggo,	*Racine, Wis.,*	Mechanical Eng'g.
Peterson, Arthur Bernhardt,	*Moline,*	Architecture.
Petrie, David,	*Mason City,*	Business, L. and A.
Phelps, Cyrus Earle, Jr.,	*Washington, D. C.,*	Civil Eng'g.
Pierce, Donald Alfred,	*Watseka,*	Electrical Eng'g.
Pierce, Laura Estelle,	*Gifford,*	General, L. and A.
Pierce, Leonard George,	*Elgin,*	Electrical Eng'g.
Pinckney, Frank Loyer,	*Pontiac,*	Mechanical Eng'g.

Plumb, Ermin Fawcett,	*Streator,*	General, L. and A.
Poe, Fred Madison,	*Urbana,*	Mechanical Eng'g.
Popperfuss, Henry J,	*Chicago,*	Civil Eng'g.
Porterfield, Arthur Tucker,	*Urbana,*	Architectural Eng'g.
Preston, Frank Davis,	*Carthage,*	General, L. and A.
Pritchard, Earl Adrel,	*Chicago,*	Mechanical Eng'g.
Proehl, Paul Fred,	*Chicago,*	Civil Eng'g.
Prout, Harold Bertram,	*Wheaton,*	Civil Eng'g.
Pruyn, Clara,	*Keithsburg,*	General, L. and A.
Putnam, William James,	*Pana,*	Electrical Eng'g.
Ramage, Robert Muir,	*Bloomington,*	Electrical Eng'g.
Ray, Robert William,	*Blue Mound,*	Electrical Eng'g.
Reardon, Gerold Griffin,	*Delavan,*	Medical.
Rebman, Bessie Gladys,	*Forreston,*	General, L. and A.
Redhed, William Seed,	*Tolono,*	Business, L. and A.
Reeves, Howell Hiram,	*Champaign,*	Railway Eng'g.
Reeves, Harry Payne,	*Carmi,*	General, L. and A.
Reiger, Harry Jasper,	*Springfield,*	Architecture.
Renich, Amanda Barbara,	*Woodstock,*	General, L. and A.
Rennacker, Roy Gibson,	*Chicago,*	Electrical Eng'g.
Renner, Mary Fay,	*Urbana,*	General, L. and A.
Renner, Wendell Phillips,	*Urbana,*	General, L. and A.
Rennick, Eugene Hamilton,	*Toulon,*	General, L. and A.
Retz, Louise Julia,	*Ottawa,*	General, L. and A.
Richards, James Verney,	*Moline,*	Architectural Eng'g.
Richie, James King,	*Georgetown,*	Electrical Eng'g.
Righter, Edwin Brown,	*Saunemin,*	Electrical Eng'g.
Rives, Oakley Beebe,	*Rock Bridge,*	Agriculture.
Robb, Frank Allen,	*Seaton,*	Agriculture.
Roberts, Clarence Gardner,	*Beardstown,*	Electrical Eng'g.
Roberts, Glen Baird,	*Shelbyville,*	Business, L. and A.
Robinson, Kendall Edward,	*Rockford,*	Civil Eng'g.
Rolens, Edith Leota,	*Murphysboro,*	Household Science, Agr.
Rollo, Ralph Alexander,	*Murphysboro,*	Civil Eng'g.
Romig, Frank G,	*Coffeyville, Kan.,*	Mechanical Eng'g.
Rose, Elizabeth Irene,	*Rankin,*	Music.
Rosecrans, Bennett Paine,	*Champaign,*	Civil Eng'g.
Ross, Louise Henrietta,	*Evanston,*	Household Science, L. and A.

Ross, Marion Anise,	*Breckenridge,*	Art and Design.
Rowden, William Clarence,	*Cuba,*	Civil Eng'g.
Royce, Julian Arthur,	*Naperville,*	Civil Eng'g.
Rugg, Daniel Maltby,	*Champaign,*	Electrical Eng'g.
Rule, Carrie Le Verne,	*Cairo,*	General, L. and A.
Russell, George Silas,	*Baltimore, Md.,*	Civil Eng'g.
Ruth, Chester,	*Hinsdale,*	General, L. and A.
Sawyer, Albert Butler, Jr.,	*Norborne, Mo.,*	Agriculture.
Schaller, William Fred,	*Mendota,*	Electrical Eng'g.
Schnetzler, Charles Henry,	*Fairbury,*	Architecture.
Schoeffel, George William,	*Freeport,*	Business, L. and A.
Schuyler, Henry McCormick,	*Clinton, Ia.,*	Architecture.
Schwarzkopf, Bertha Frances,	*Chicago,*	General, L. and A.
Scott, Howard Beebe,	*Kansas City, Mo.,*	Mechanical Eng'g.
Scott, Lucian W,	*Bement,*	Agriculture.
Sears, Arthur Lewis,	*Tiskilwa,*	Civil Eng'g.
Seiler, Alice Faye,	*Urbana,*	Household Science, S.
Seiter, Peter Wolff,	*Chicago,*	Civil Eng'g.
Settlemire, Wilbur Lynn,	*Litchfield,*	Chemistry.
Shapiro, Benjamin,	*Chicago,*	Civil Eng'g.
Shaw, Edgar James,	*Chicago,*	Civil Eng'g.
Shepard Lawrence Freeman,	*El Paso,*	Business, L. and A.
Shields, Raymond Joseph,	*Harvard,*	Civil Eng'g.
Shinn, Harry Ertel,	*Mattoon,*	Civil Eng'g.
Shirk, William Andrew,	*Tuscola,*	General, L. and A.
Shirley, Or'n Earl,	*Paris,*	Electrical Eng'g.
Shklowsky, Arcadie Jacob,	*Kieff, Russia,*	Civil Eng'g.
Shulters, John Raymond,	*Bristol, N. Y.,*	General, L. and A.
Shute, Robert Lee,	*Ottawa,*	Electrical Eng'g.
Signor, Ruth Husted,	*Urbana,*	General, L. and A.
Simonini, Paul Charles,	*Chicago,*	Mechanical Eng'g.
Sisson, Frederick Plummer,	*Mansfield,*	General, L. and A.
Skillin, Ralph Wendell,	*Oak Park,*	Mechanical Eng'g.
Smith, Arthur Lloyd,	*Paw Paw,*	General, L. and A.
Smith, George Harold,	*Rockford,*	Civil Eng'g.
Snow, Elbert Somers,	*Crutchfield, N. C.,*	General, L. and A.
Spafford, Frederick Dwight,	*Morrison,*	Civil Eng'g.
Spencer, Raymond Briggs,	*Chicago,*	Architecture.
Spierling, Arthur Otto,	*Chicago,*	Mechanical Eng'g.

Sponsel, Christopher Thane,	*Chicago,*	Civil Eng'g.
Stadler, Arno Carl,	*Bement,*	Electrical Eng'g.
Standish, Seymour,	*Chicago,*	Civil Eng'g.
Stanner, James Ray,	*Urbana,*	Agriculture.
Stephens, Laura Annetta,	*Champaign,*	General, L. and A.
Sterling, John Donald,	*Maroa,*	Electrical Eng'g.
Stevens, Grace Esther,	*Marengo,*	Household Science, L. and A.
Stevenson, Milton Leonard,	*Mason City,*	General, L. and A.
Stewart, Melville Boicourt,	*Metropolis,*	Civil Eng'g.
Stewart, Myron Boyd,	*Englewood,*	Agriculture.
Strasser, Rolland John,	*LaGrange,*	Mechanical Eng'g.
Strobridge, Thomas Ralph,	*Lockport,*	Civil Eng'g.
Strom, John,	*Geneva,*	Civil Eng'g.
Stuart, Karl Kellogg,	*Springfield,*	Ceramics.
Sumberg, Abraham,	*Utica,*	Electrical Eng'g.
Summer, Lela,	*Auburn,*	Household Sci., Agr.
Sussex, Richard Henry,	*Abingdon,*	Civil Eng'g.
Sutherland, Edwin Marion,	*Escanaba, Mich.,*	Electrical Eng'g.
Swackhamer, Chester Ray,	*Union, Oregon,*	Medical.
Swanson, Elder Louisa,	*Paxton,*	General, L. and A.
Swett, Lewis Edward,	*Chicago,*	Electrical Eng'g.
Swift, Elizabeth Andrews,	*Champaign,*	General, L. and A.
Swigart, Alta Caroline,	*Champaign,*	General, L. and A.
Swits, Francis Howard,	*Rockford,*	General, L. and A.
Swope, Harrison Asbury,	*Buda,*	Electrical Eng'g.
Talbot, Warren L,	*Roberts,*	General, L. and A.
Tarnoski, Alexander Stephen,	*Chicago,*	Architectural Eng'g.
Tate, Fred Reeves,	*Vandalia,*	General, L. and A.
Taylor, Frank Morehouse,	*New Berlin,*	Agriculture.
Taylor, Harry Homer,	*Oskaloosa, Ia.,*	Electrical Eng'g.
Taylor, Stanley George,	*Bloomington,*	Electrical Eng'g.
Taylor, Winfield Carel,	*Dennison,*	Mechanical Eng'g.
Terrey, William Homer,	*Viola,*	Electrical Eng'g.
Thayer, Alice Cary,	*Chicago,*	General, L. and A.
Thayer, Henry Spafford,	*Chicago,*	Electrical Eng'g.
Thomas, Percy William,	*Chicago,*	Civil Eng'g.
Thompson, Elmer John,	*Nameoki,*	Agriculture.
Thompson, George Brooks,	*Champaign,*	General, L. and A.
Thompson, Malcolm Everett,	*Austin,*	Civil Eng'g.
Thompson, Thomas David Ora,	*White Hall,*	Agriculture.

Thompson, Thomas Eugene,	*Wilmette,*	Chemical Eng'g.
Thomsen, John William,	*Fulton,*	Civil Eng'g.
Tilson, Delbert Mayo,	*Williamsville,*	Agriculture.
Tracy, Perry Allen,	*Princeville,*	Agriculture.
Travers, Sylvan Morse,	*Fairview,*	Business, L. and A.
Treakle, Jesse Fell,	*Peoria,*	Ceramics.
Trotter, Clinton P,	*Kansas,*	Agriculture.
Tu, Weitsen,	*Shanghai, China,*	Civil Eng'g.
Tull, Allison Lee,	*Farmer City,*	General, L. and A.
Turell, Inez,	*Champaign,*	General, L. and A.
Turk, Elkan,	*Litchfield,*	General, L. and A.
Turner, Herbert Michael,	*Hillsboro,*	Electrical Eng'g.
Urbain, Leon Francois,	*DuQuoin,*	Architecture.
Van de Greyn, Bert,	*Kansas City, Mo.,*	Civil Eng'g.
Van Doren, Robert Guy,	*Urbana,*	Architecture.
Van Duyn, Charles Augustus,	*Katy, Texas,*	Agriculture.
Van Duyn, Paul,	*Highland Park,*	Agriculture.
Veirs, Dean Mooman,	*Urbana,*	Civil Eng'g.
Vivian, Edmund Weatherby,	*Bradford,*	General, L. and A.
Voss, Mathilda Caroline,	*Champaign,*	Household Science, L. and A.
Wacaser, Franklin Edgar,	*Hammond,*	General, L. and A.
Waggoner, Edwin Harris,	*Lewistown,*	Agriculture.
Wagner, Claude Levern,	*Pontiac,*	Chemical Eng'g.
Walker, Ernest Dewitt,	*Tennessee,*	Agriculture.
Wallace, Cora Elizabeth,	*Champaign,*	General, L. and A.
Wanderer, Alvin Eugene John,	*Chicago,*	Civil Eng'g.
Warnock, David Wallace,	*Moline,*	General Science.
Warrick, Theron Lloyd,	*Utica,*	Agriculture.
Washburn, Ludlow Joseph,	*Evanston,*	Agriculture.
Watson, Carl Page,	*Chicago,*	Business, L. and A.
Watson, Marguerite,	*Champaign,*	General, L. and A.
Watson, Robert Hugh, Jr.,	*LaGrange,*	Business, L. and A.
Watson, William Carl,	*Chicago,*	Agriculture.
Watt, Lynn Andre,	*Pontiac,*	Chemical Eng'g.
Weaver, Lana,	*Harrisburg,*	Civil Eng'g.
Webber, Lois Rebecca,	*Shelbyville,*	General, L. and A.
Wehrstedt, William Theodore,	*Evanston,*	Mechanical Eng'g.
Wienberg, Margaret,	*Rushville,*	General, L. and A
Weinrich, George Louis,	*Chester,*	Music
Wendling, Jacob,	*Williamsville, N. Y.,*	Civil Eng'g.

Wenter, Lawrence Martin,	*Chicago,*	Railway Eng'g.
Wernsing, Harry John,	*Greenview,*	Business, L. and A.
Weston, Frederick William,	*Chicago,*	Civil Eng'g.
Wheatlake, Burton Cyrenous Job,	*Urbana,*	Electrical Eng'g.
White, Clarence Wilbur,	*Lacon,*	General Science.
White, Florence Leone,	*Rantoul,*	General, L. and A.
Wilcox, Ralph Ellsworth,	*Elizabeth,*	Civil Eng'g.
Willerton, Taylor Pearce,	*Farmer City,*	Electrical Eng'g.
Williams, Charles E,	*Vincennes, Ind.,*	Mechanical Eng'g.
Williams, Clarence Foss,	*Elgin,*	Business, L. and A.
Williams, Grace Alice,	*Galva,*	General, L. and A.
Williams, Lawrence Harmon,	*Elgin,*	Civil Eng'g.
Willmore, Cyrus Crane,	*Union Grove, Wis.,*	General, L. and A.
Wills, Frank,	*Mackinaw,*	Chemical Eng'g.
Wingert, Frank Jennings,	*Quincy,*	Mechanical Eng'g.
Wolf, Otto Fred,	*Bensonville,*	Civil Eng'g.
Wood, Stephen Gaskell,	*Clyde,*	Mechanical Eng'g.
Worrell, Grace Lucile,	*Bowen,*	General Science.
Wrenn, Robert Fifer,	*Champaign,*	Agriculture.
Yanochowski, George Albert,	*Henry,*	Electrical Eng'g.
Zahn, Fred Raymond,	*Chester,*	Electrical Eng'g.

FRESHMEN

Abbott, Anna Rose,	*Oak Park,*	General Science.
Abbott, Bayard Taylor,	*Morrison,*	Agriculture.
Abbott, Edward Douglas,	*Streator,*	Electrical Eng'g.
Abbott, Theodora Sarah,	*Saltillo, Mexico,*	General, L. and A.
Acton, Artie Carlyle,	*Champaign,*	Civil Eng'g.
Agg, Rachael,	*Oskaloosa, Ia.,*	General, L. and A.
Agnew, Viola B,	*Chicago,*	General, L. and A.
Albrecht, Arthur Joseph,	*Tiskilwa,*	General, L. and A.
Albrecht, William Albert,	*Flanagan,*	General, L. and A.
Aleshire, Merlin Clay,	*Chicago,*	Electrical Eng'g.
Alexander, James Greenleaf,	*Jacksonville,*	General Science.
Allen, Edward Dewalt,	*Freeport,*	Medical.
Allen, George B,	*Roodhouse,*	Mechanical Eng'g.
Allen, Laurie Lee,	*Charlottesville, Va.,*	Medical.

Allen, Ray Clifford,	*Waterman,*	Civil Eng'g.
Anderson, Arvid Robert,	*Chicago,*	Electrical Eng'g.
Anderson, Charles Thomas,	*Taylorville,*	Electrical Eng'g.
Anderson, Clair Ellmore,	*Summer Hill,*	Electrical Eng'g.
Anderson, Glenn Davis,	*Chicago,*	Civil Eng'g.
Anderson, Lewis Holmes,	*Buda,*	Civil Eng'g.
Anthony, William Cornelison,	*Streator,*	Mechanical Eng'g.
Applegate, Verne Linn,	*Atlanta,*	Medicine.
Arbuckle, Grover S,	*Procton,*	Mechanical Eng'g.
Arnold, Charles Nathan,	*Galena,*	Electrical Eng'g.
Arnold, Ralph,	*Carbondale,*	Architecture.
Arvedson, Raymond Peter,	*Carpentersville,*	Civil Eng'g.
Ashby, Raymond Clarke,	*Berwyn,*	Architectural Eng'g.
Ashby, Wilbert Bond,	*Berwyn,*	Architecture.
Bach, Beulah Winifred,	*Urbana,*	Medicine.
Bachmann, Frank,	*Watervliet, N. Y.,*	Chemistry.
Baer, Frederick Eugene,	*Belleville,*	General, L. and A.
Bailey, Thomas Marshall,	*Madison, Ala.,*	Mechanical Eng'g.
Baily, Earl Martin,	*Fairbury,*	Railway Eng'g.
Bair, Joseph Henderson,	*Martinsville,*	Electrical Eng'g.
Baird, Florence,	*Indianola,*	General, L. and A.
Baker, Charlotte Phelps,	*Sullivan,*	General, L. and A.
Baker, Elmer Jerome, Jr.,	*Kenilworth,*	General, L. and A.
Baldwin, Mamie Anna,	*Chicago,*	General, L. and A.
Bandy, Harold James,	*Granite City,*	General, L. and A.
Bannister, Bryant,	*Kewanee,*	Mechanical Eng'g.
Bannister, Julian Clyde,	*Naperville,*	Civil Eng'g.
Bannister, Kimball,	*Kewanee,*	Medicine.
Bannon, Robert Joseph,	*Joliet,*	General, L. and A.
Bardwell, Richard Woleben,	*Aurora,*	General, L. and A.
Barker, Raymond Leo,	*Newton,*	Architectural Eng'g.
Barkman, John Mason,	*Danville,*	Electrical Eng'g.
Barloga, Jesse August,	*Pecatonica,*	Architecture.
Barlow, John Edmund,	*Urbana, Ohio,*	General, L. and A.
Barnes, Orlin Miner,	*Springfield,*	Electrical Eng'g.
Barnes, Walter Cherry,	*Springfield,*	Chemistry.
Barrett, George Samuel,	*Lewistown,*	Agriculture.
Bartells, Henry Harrison,	*Camp Point,*	Business, L. and A.
Bartlett, Bennett Watson,	*Quincy,*	Civil Eng'g.
Bartlett, Richard Sylvester,	*Quincy,*	Electrical Eng'g.
Bartmess, Ernest Lee,	*Kansas,*	Mechanical Eng'g.

Barton, Blanche Edna,	*Urbana,*	General, L. and A.
Bass, Florence Emeline,	*Princeton,*	Household Sci., Agr.
Bass, Lock Dickeman,	*Canton,*	Mechanical Eng'g.
Bassett, Charles Marshall,	*Dunlap,*	Chemistry.
Bates, Roger H,	*Hebron, Ind.,*	Agriculture.
Baum, Mark Winchester,	*Champaign,*	Mechanical Eng'g.
Baumgartner, Oliver Franklin,	*Naperville,*	Chemical Eng'g.
Baxter, Florence Gabrielle,	*Nauvoo,*	General Science.
Baysinger, Millard Winfield, Jr.,	*Grand Tower,*	Medicine.
Beale, George Dale,	*DeKalb,*	Agriculture.
Beall, Charles Wesley,	*Alton,*	Mechanical Eng'g.
Beatty, Earle Jacob,	*Concord, N. H.,*	General, L. and A.
Beatty, Joe Earle,	*Raymond,*	Civil Eng'g.
Bebb, Herbert,	*Chicago,*	General, L. and A.
Beck, Herbert Clinton,	*Harvard,*	Civil Eng'g.
Beckman, Charles Louis,	*Chatsworth,*	Civil Eng'g.
Beers, Harry Charles,	*Champaign,*	Agriculture.
Belsley, Benjamin Rudolph,	*Roanoke,*	Architectural Eng'g.
Bennett, Harrie E,	*Springfield,*	Civil Eng'g.
Bennitt, Ralph Anderson,	*Chicago,*	Civil Eng'g.
Benson, Joe Pope,	*Herrin,*	General, L. and A.
Benton, Eldredge Merritt,	*Peoria,*	Agriculture.
Berg, Hazel Hodge,	*Bloomington,*	General Science.
Bernstein, Louis Stewart,	*Chicago,*	Civil Eng'g.
Berry, Parker Noble,	*Princeton,*	Architectural Eng'g.
Berry, Ray Chamberlain,	*Toledo, Ia.,*	Business, L. and A.
Biebel, Walter Risdon,	*Belleville,*	Civil Eng'g.
Biggs, Charles Ervin,	*Lexington,*	Medical.
Billman, DeWitt,	*E. St. Louis,*	General, L. and A.
Black, Lee McKnight,	*Terre Haute, Ind.,*	General, L. and A.
Blackwell, Ralph Virgil,	*Atwood,*	Electrical Eng'g.
Blakeslee, Elmer Frederick,	*Lockport,*	Electrical Eng'g.
Blatchley, Ralph Fordyce,	*Indianapolis, Ind.,*	Agriculture.
Bliss, Helen Eva,	*Lexington, Miss.,*	General, L. and A.
Block, Elmer Royal,	*Champaign,*	Business, L. and A.
Block, Frieda Emma Alvina,	*Champaign,*	General, L. and A.
Blood, Paul Revere,	*Grayville,*	Civil Eng'g.
Blume, Bernadine Caroline,	*Chicago,*	General, L. and A.

Boden, Joseph King,	*Oquawka,*	Electrical Eng'g.
Boger, Henry Hall,	*Aurora,*	Agriculture.
Boger, Thomas Abram,	*Aurora,*	General Science.
Boland, Mary Anna,	*Kansas City, Mo.,*	General, L. and A.
Bollinger, William Nicholas,	*Sycamore,*	Civil Eng'g.
Bond, Augusta Eleanor,	*Urbana,*	General, L. and A.
Boon, Elvin Edwards,	*Chrisman,*	Electrical Eng'g.
Bourdette, Bertha Estella,	*Chicago,*	Business, L. and A.
Bouscher, Nellie Genevieve,	*DeSoto,*	General, L. and A.
Boutell, Hugh Gates,	*Chicago,*	Railway Eng'g.
Bowers, Lester Edward,	*Chicago,*	Agriculture.
Boyer, Walter Howard,	*Carlyle,*	Civil Eng'g.
Boyle, Ralph Edward,	*Aurora,*	Civil Eng'g.
Brand, Royden Earl,	*Danville,*	Agriculture.
Brands, Edgar Gregory,	*Prairie du Rocher,*	General, L. and A.
Branen, James Hepton,	*Sycamore,*	Architectural Eng'g.
Breining, Wilhelmine Anna,	*Peru,*	General, L. and A.
Bridenthal, Cyrus William,	*Monmouth,*	General, L. and A.
Briggs, Ezekiel LaFayette,	*Marion, Idaho,*	Agriculture.
Broaddus, Elizabeth Minerva,	*Magnolia,*	Household Science, L. and A.
Brockman, Cornelius Edward,	*Jerseyville,*	Architecture.
Brode, Laurence Partridge,	*Santa Anna, Cal.,*	Electrical Eng'g.
Brooks, Clara Mabel,	*Saunemin,*	General, L. and A.
Brooks, Raymond Wentworth,	*Urbana,*	Civil Eng'g.
Brooks, Roger,	*Urbana,*	Music.
Brooks, Verna,	*Macon,*	General, L. and A.
Brown, Challen Marcellus,	*Hoopeston,*	Agriculture.
Brown, Clarence Homer,	*Lexington,*	Electrical Eng'g.
Brown, Ferrel Marksbury,	*Robinson,*	Agriculture.
Brown, Hugh Alexander,	*Urbana,*	Electrical Eng'g.
Brown, John Howard,	*Paris,*	Civil Eng'g.
Brown, Ralph Edgar,	*Hillsboro,*	Ceramics.
Brown, Ralph Emerson,	*Homer,*	Medical.
Brown, Ray Manlius,	*Valparaiso, Ind.,*	Civil Eng'g.
Brown, Samuel Monroe,	*Milford,*	Business, L. and A.
Brown, Vera Mae,	*Pana,*	General, L. and A.
Browning, Claude William,	*E. St. Louis,*	General, L. and A.

Brumme, Frank Julius,	*Cooksville,*	Electrical Eng'g.
Bryant, George Archie, Jr.,	*Chicago,*	Civil Eng'g.
Bunch, Mamie,	*Arcola,*	Household Sci., S.
Bundy, William Henry,	*Cherry,*	Civil Eng'g.
Bunn, Benjamin Harrison,	*Chicago,*	Mechanical Eng'g.
Bunting, Charles Antrim de Krafft,	*Quincy,*	Mechanical Eng'g.
Burgner, Harley Thompson,	*Carthage,*	Electrical Eng'g.
Burke, Edmund,	*LaSalle,*	Medical.
Burkhart, Harry Louis,	*Blue Island,*	Chemical Eng'g.
Burley, Walter Bromley,	*Edison Park,*	Electrical Eng'g.
Burnett, Fred William,	*Longview,*	Agriculture.
Burno, Louis Kelsey,	*Blue Island,*	Chemical Eng'g.
Burns, Joe Kossuth,	*Greenview,*	Electrical Eng'g.
Burns, Josephine Elizabeth,	*Macomb,*	General, L. and A.
Burns, Mabel Blanche,	*Princeton,*	Household Science, L. and A.
Burns, Ruth Mitchell,	*Macomb,*	General, L. and A.
Burson, Norman Alexander,	*Plano,*	Mechanical Eng'g.
Burt, Paul Gordon,	*Superior, Nebr.,*	Architecture.
Burton, Earl K,	*Isabel,*	Civil Eng'g.
Burton, Laurence Vreeland,	*Aurora,*	Chemical Eng'g.
Burwash, Arthur Ernest,	*Savoy,*	Civil Eng'g.
Burwash, Clarence Fletcher,	*Champaign,*	Civil Eng'g.
Butler, Crillis Newton,	*Chicago,*	Architecture.
Butler, Roland Glenn,	*Urbana,*	Electrical Eng'g.
Butters, Howard Monreau,	*Chicago,*	Mechanical Eng'g.
Butzer, John Martin,	*Sycamore,*	Civil Eng'g.
Buyers, Donald Erskine,	*Sterling,*	Mechanical Eng'g.
Byrns, Roscoe Aaron,	*Kankakee,*	Civil Eng'g.
Caldwell, Brice Jonas,	*Champaign,*	Electrical Eng'g.
Caldwell, Charles Edwin, Jr.,	*Chicago,*	Civil Eng'g.
Caley, Floy E,	*Champaign,*	General, L. and A.
Caley, Mary Clellah,	*Champaign,*	General, L. and A.
Camp, Willard Russell,	*Bement,*	Civil Eng'g.
Campbell, Neil Nelson,	*Zion City,*	Civil Eng'g.
Candor, Sarah Rebecca,	*Aledo,*	Household Science, Agr.
Cannon, Fermor Spencer,	*Indianapolis, Ind.,*	Architectural Eng'g.
Capek, Ladeslav Vaclav,	*Chicago,*	Electrical Eng'g.
Case, Harry Hayden,	*Cherry Valley,*	Agriculture.

Case, Mary Jane,	*Cherry Valley,*	General, L. and A.
Cash, Arthur Lester,	*Marion,*	Civil Eng'g.
Cash, Harold Smith,	*Harvard,*	Agriculture.
Cass, Elizabeth Henrietta,	*Chicago,*	General, L. and A.
Chapman, Leo Albert,	*Colfax,*	Electrical Eng'g
Churchill, Guy Fordyce,	*Chenoa,*	Mechanical Eng'g.
Clare, William Henry,	*Glen Ellyn,*	Architecture.
Clark, Alfred Minor,	*Keokuk, Ia.,*	Civil Eng'g.
Clarke, Homer Hay,	*Springfield,*	Civil Eng'g.
Clarke, Philena,	*Noblesville, Ind.,*	General, L. and A.
Cleal, Bertram,	*Streator,*	Civil Eng'g.
Cleave, Scott William,	*Ottawa,*	Agriculture.
Cline, Bessie Florence,	*Monticello,*	General, L. and A.
Cole, Mary Inez,	*Genesco,*	Household Science, L. and A.
Coles, Max Nathan,	*Odell,*	Electrical Eng'g.
Collins, Isabel Ina,	*Chicago,*	General, L. and A.
Conard, Jonah W,	*Monticello,*	General, L. and A.
Condit, Roy Willoughby,	*Urbana,*	Civil Eng'g.
Connard, May,	*Decatur,*	Household Sci., L. and A.
Connell, Daniel,	*Toledo, Ia.,*	Architecture.
Connelly, Retta Belle,	*Hume,*	General, L. and A.
Conner, George Robert,	*Carmi,*	Electrical Eng'g.
Cook, Samuel Sampson,	*Clinton, Ia.,*	Railway Eng'g.
Cooke, Roscoe Leighton,	*Dana, Ind.,*	Architecture.
Cosart, Ernest Walter,	*Orange, Cal.,*	Architectural Eng'g.
Cottingham, Jesse Bernays,	*Aurora, Mo.,*	General, L. and A.
Coulter, James Henry,	*Pittsfield,*	Civil Eng'g.
Cowell, Joseph Goss,	*Peoria,*	Art and Design.
Cowles, Clarence Gustavus,	*Rockford,*	Electrical Eng'g.
Cox, Robert Sayre,	*Terre Haute, Ind.,*	General, L. and A.
Crain, Chester McElfresh,	*Urbana,*	Electrical Eng'g.
Crampton, Carl Eckhardt,	*Milan,*	Agriculture.
Crane, Eva Retta,	*Rantoul,*	General, L. and A.
Cratty, Estella Faye,	*Litchfield,*	General, L. and A.
Cress, James Washington,	*Hillsboro,*	Agriculture.
Cunning, George Stanley,	*Cedar Falls, Ia.,*	Architecture.
Curran, Terrance James,	*Plain View, Minn.,*	Electrical Eng'g.

Dabbs, Roy Underhill,	*Little Rock, Ark.,*	Mechanical Eng'g.
Dalenberg, Peter,	*S. Holland,*	Architectural Eng'g.
Daniels, Louis Wesley,	*Jerseyville,*	Agriculture.
Davies, Edmund Clarence,	*Champaign,*	Agriculture.
Davis, Charles Krum,	*Baltimore, Md.,*	Chemical Eng'g.
Davis, Gertrude Curtis,	*Straight Creek, Kan.,*	General, L. and A.
Davis, Harley Adolph,	*Centralia,*	General Science.
Davis, Howard Scott,	*Vandalia,*	Electrical Eng'g.
Dawson, James Roscoe,	*Warren,*	Architectural Eng'g.
Day, Harold Chamberlain,	*Chicago,*	Business, L. and A.
Dayton, Cleave Henry,	*Paris,*	Civil Eng'g.
Dazy, Alba William,	*Milford,*	General, L. and A.
Dean, Oscar McClintock,	*Camp Point,*	Civil Eng'g.
DeButts, Cary Edward,	*Pontiac,*	Architectural Eng'g.
Decker, Leon Morton,	*Chicago,*	Chemical Eng'g.
Dewey, Herschel Hinning,	*Plano,*	Architectural Eng'g.
DeWolf, Eva Clare,	*Chicago,*	General, L. and A.
DeWolf, Mrs. Fanny Davis,	*Champaign,*	General, L. and A.
Diaz, Waldemar Ramon,	*Ranchos, Buenos Ayres,*	Electrical Eng'g.
Diederichs, Hans Otto,	*Chicago,*	Civil Eng'g.
Diener, Wayne Rufus,	*Harvard,*	Electrical Eng'g.
Dillavou, Roscoe Clarke,	*Tolono,*	General, L. and A.
Dittmer, Harry Leroy,	*Spokane, Wash.,*	Architecture.
Dixon, Noah Matheny,	*Springfield,*	Business, L. and A.
Dole, Arthur Lucian,	*Manteno,*	Electrical Eng'g.
Dole, Ira Burton,	*Manteno,*	Mechanical Eng'g.
Dollahan, Herman Leander,	*Mt. Carmel,*	Electrical Eng'g.
Dollarhide, Helen,	*Springfield,*	General, L. and A.
Dollarhide, Mary Edith,	*Springfield,*	General, L. and A.
Dombrowski, Walter,	*Peoria,*	Electrical Eng'g.
Doonan, Edward Joseph,	*Bloomington,*	Civil Eng'g.
Doty, William Shannon,	*Mt. Carroll,*	Agriculture.
Downs, Orrie Hagar,	*Urbana,*	Electrical Eng'g.
Drake, Pauline Hortense,	*Urbana,*	Music.
Drew, Beatrice Lillian,	*Chicago,*	General, L. and A.
Drummond, Ethel Reynolds,	*Chicago,*	General, L. and A.
DuBois, Charles Rhesia,	*Macon, Mo.,*	Civil Eng'g.
Dunham, Arthur Barrett,	*Oglesby,*	Architecture.
Durley, Williamson Mark,	*Hennepin,*	Agriculture.

Eades, Ted Calbeck,	*Streator,*	General Science.
Eakin, Morton Samuel,	*Elgin,*	Mechanical Eng'g.
Eames, Melville Joseph,	*Blue Island,*	Medical.
Eastburn, David Leslie,	*Kankakee,*	Electrical Eng'g.
Eaton, Clifford Reed,	*Robinson,*	Chemical Eng'g.
Ebert, Lawrence Rudolph,	*Granite City,*	Civil Eng'g.
Eckhardt, Erwin William,	*Belleville,*	Electrical Eng'g.
Edler, George Christian,	*LaGrange,*	Agriculture.
Eells, Zelma Lucinda,	*Freeport,*	Household Sci., Agr.
Egan, Ellis Percival,	*Springfield,*	General, L. and A.
Eichman, Ira Samuel,	*Chicago,*	Mechanical Eng'g.
Eidam, Arthur Edward Emil,	*Blue Island,*	Electrical Eng'g.
Ekblaw, Walter Elmer,	*Rantoul,*	Chemical Eng'g.
Elfmann, William Henry,	*Wilson, Minn.,*	Mechanical Eng'g.
Ellison, Edgar George,	*Chicago,*	Mechanical Eng'g.
Enger, Arthur Ludvig,	*Decorah, Ia.,*	Civil Eng'g.
Epps, Jessie Belle,	*Ottumwa, Ia.,*	Music.
Epstein, Abraham Solomon,	*Chicago,*	Civil Eng'g.
Erickson, Carl Elmer,	*Chicago,*	Agriculture.
Erickson, Edwin James,	*DeKalb,*	General, L. and A.
Erlbacher, Harriet Clare,	*Morris,*	General, L. and A.
Essington, John Weston,	*Streator,*	Business, L. and A.
Etherton, James Everette,	*Carbondale,*	General, L. and A.
Evans, Walter Thomas,	*Bloomington,*	Railway Eng'g.
Everingham, Charles,	*Robinson,*	Civil Eng'g.
Ewbank, John Roscoe,	*Farmer City,*	Business, L. and A.
Fairhall, Lawrence Turner,	*Danville,*	Chemistry.
Farley, Claude W,	*Tiskilwa,*	Business, L. and A.
Farrar, Harry Lewis,	*Quincy,*	Mechanical Eng'g.
Faught, Gail,	*Altamont,*	General, L. and A.
Faxon, Orson Evans,	*Plano,*	General, L. and A.
Feallock, Walter Herman,	*Michigan City, Ind.,*	Business, L. and A.
Fellows, James Phillips,	*Kankakee,*	Agriculture.
Ferris, Charles Francis,	*Danville,*	Civil Eng'g.
Ficklin, Emily Colquitt,	*Charleston,*	General, L. and A.
Fielder, Harold Sydney,	*Chicago,*	Railway Eng'g.
*Fillinger, Earl Stanley,	*Dana, Ind.,*	Architecture.
Fischer, Oscar Anton,	*Chicago,*	Civil Eng'g.
Fisher, Forrest Adison,	*Greenup,*	Agriculture.
Fisher, Glendon Morrell,	*Red Oak, Ia.,*	General, L. and A.

*Deceased.

Fisher, Paul Paisley, *Aurora,* General Science.
Fisher, Ward Herbert, *Mt. Comfort, Ind.,* Architectural Eng'g.
Fisk, Roscoe Roby, *Plainview, Minn.,* Medical.
Fitzpatrick, Ulysses Simon, *Orange, Cal.,* General, L. and A.
Flanders, Harry Taylor, *Noble,* Electrical Eng'g.
Flaugher, John Howard, *Aurora,* Mechanical Eng'g.
Fleming, Rose Grahame, *Olney,* General, L. and A.
Fletcher, Elizabeth Blair, *Bunker Hill,* General, L. and A.
Fletcher, Loren Albert, *Blue Island,* General, L. and A.
Foersterling, Frederick John, *Dwight,* Electrical Eng'g.
Foglesong, Lawrence Earl, *Moscow, Idaho,* Agriculture.
Foley, John Warner, *Clinton,* Electrical Eng'g.
Foran, Patrick Henry, *Granville,* Mechanical Eng'g.
Forbes, George McMillan, *Chicago,* General, L. and A.
Ford, Carlotta Marks, *Geneva,* Household Sci., S.
Ford, James Walter, Jr., *Chatsworth,* Electrical Eng'g.
Fox, Frank Alfred, *Danville,* Electrical Eng'g.
Francis, Howard Milton, *Forrest,* Electrical Eng'g.
Francis, Ruby Louise, *Forrest,* General, L. and A.
Fraser, Kenneth Gatiss, *LaSalle,* General, L. and A.
Frazee, John Delavan, *Chicago,* Chemical Eng'g.
Frazee, Mabel, *Moweaqua,* General, L. and A.
Freese, Ralph Stanley, *Bloomington,* General, L. and A.
Fremer, Otto William, *Chicago,* Architectural Eng'g.
Froehde, Frederick Charles, *Chicago,* Civil Eng'g.
Froehlich, Milton Heckscher, *Chicago,* Civil Eng'g.
Frost, Don Harold, *Jerseyville,* General, L. and A.
Fryer, Paul Glover, *San Jose,* Mechanical Eng'g.
Fuessle, Milton Theodore, *Naperville,* Chemistry.
Fullenwider, Wilfred Truman, *Mechanicsburg,* Agriculture.
Galeener, Wilbur Kenneth, *Vienna,* Agriculture.
Garabedian, Garabed Arshag Zacar, *Constantinople, Turkey,* Medical.
Gardner, James Lewis, *Aurora,* Agriculture.
Garibaldi, Laurence Andrew, *Chicago,* Business, L. and A.
Garrity, Leo Francis, *Chatsworth,* Electrical Eng'g.
Garver, Earl, *Rockford,* Agriculture.
Gasman, William Frederick, *Tyndall, S. D.,* Civil Eng'g.
Gehrke, Fred Jacob, *Chicago,* Electrical Eng'g.
Genung, Elisha Nelson, *Rantoul,* Agriculture.

Gerber, Guy Theodore,	*Rensselaer, Ind.,*	General, L. and A.
Gerlach, Miriam,	*Chester,*	General, L. and A.
Gerow, Theodore Manvel,	*Atkinson, Kas.,*	Architecture.
Gerrard, Archibald Cochran,	*Indianapolis, Ind.,*	Mech. Eng'g.
Gest, Ben,	*Rock Island,*	Architectural Eng'g.
Gilkerson, Harry Charles,	*Marengo,*	Agriculture.
Gleason, Nellie Magruder,	*Champaign,*	General, L. and A.
Glenn, Arthur Barlow,	*Quincy,*	Civil Eng'g.
Glenn, Laurence Arthur,	*Champaign,*	General, L. and A.
Glover, Leonard Wood,	*Urbana,*	General, L. and A.
Goddard, Henry Houts,	*Mt. Carmel,*	General, L. and A.
Godfrey, Wall,	*Staunton,*	General, L. and A.
Goffeney, Otto Julius,	*S. Bend, Ind.,*	Architecture.
Gonnerman, Arthur William,	*Dixon,*	Electrical Eng'g.
Goodrich, Alonzo Charles, Jr.,	*Chicago,*	Mechanical Eng'g.
Gordon, Willis Owen,	*Paris,*	Chemistry.
Gorham, Edwards Doremus,	*Champaign,*	General Science.
Gorman, Timothy,	*Chicago,*	Civil Eng'g.
Gossett, Earl Jones,	*Norris City,*	Electrical Eng'g.
Gossett, John Eubanks,	*Urbana,*	General, L. and A.
Grabowski, Thaddeus Marion,	*Chicago,*	Civil Eng'g.
Graham, Paul John,	*Aledo,*	General, L. and A.
Gray, Frank Brownfield,	*St. Charles,*	Architecture.
Gray, Fred Jay,	*Ottawa,*	Electrical Eng'g.
Green, Ethel Emma,	*Paris,*	General, L. and A.
Greene, Lois,	*Dubuaque, Ia.,*	Household Sci., Agr.
Gregg, Walter Norman,	*Fairbury,*	General, L. and A.
Grieser, Harry Arthur,	*Quincy,*	Agriculture.
Grigsby, Owen Eugene,	*Peoria,*	Electrical Eng'g.
Gross, Meda Floy,	*Atwood,*	General, L. and A.
Grove, Chester Hayward,	*Ottawa,*	Electrical Eng'g.
Groves, Evangeline Eunice,	*Champaign,*	General, L. and A.
Groves, Pauline Trabue,	*Champaign,*	General, L. and A.
Guild, Chester Warren,	*Wheaton,*	Civil Eng'g.
Guild, Frank Earl,	*Warren,*	Architectural Eng'g.
Gumaer, Percy Wilcox,	*Buffalo, N. Y.,*	Electrical Eng'g.
Gunderson, Alfred Joseph,	*Chicago,*	Agriculture.
Gustafson, Joel Nathaniel,	*Chicago,*	Architecture.
Gutting, Leo Arthur,	*Ottawa,*	Electrical Eng'g.

Gwinn, Avis,	*Urbana,*	General, L. and A.
Gwinn, Ethel,	*Urbana,*	General, L. and A.
Haeffner, John George,	*Oak Park,*	Civil Eng'g.
Hagedorn, Frederick Arthur,	*Rock Island,*	Electrical Eng'g.
Haines, Forrest Livingston,	*Forrest,*	Medical.
Hale, Ralph Sumner,	*Chicago,*	Business, L. and A.
Hallett, Margaret Hope,	*Aspen, Colo.,*	General, L. and A.
Halliday, Vernon,	*Clinton, Mich.,*	Chemical Eng'g.
Haltom, Horace Marie,	*Mooresville, Ind.,*	General, L. and A.
Hamilton, Edna Marie,	*Newman,*	General, L. and A.
Hamilton, Edwin S,	*Kankakee,*	Medical.
Hamilton, Walter,	*Ft. Wayne, Ind.,*	Mech. Eng'g.
Hammers, James Ralph,	*El Paso,*	General, L. and A.
Hammers, William Emerald,	*El Paso,*	Agriculture.
Hand, Charles Silas,	*Champaign,*	Ceramics.
Hanke, Harry Allen,	*Freeport,*	Business, L. and A.
Hanna, John Paul,	*Aurora,*	Electrical Eng'g.
Hansen, Viggo,	*Morris,*	Civil Eng'g.
Hanson, Ross Arnold,	*Peoria,*	Civil Eng'g.
Harley, Mildred E,	*Aurora,*	Household Science, L. and A.
Harmon, Raymond Watts,	*E. St. Louis,*	Agriculture.
Harms, Arthur Henry,	*Rock Island,*	General, L. and A.
Harms, Louis Arthur Peter,	*Dolton,*	Mechanical Eng'g.
Harris, Leila Dorothy,	*Champaign,*	General, L. and A.
Harris, Norris David,	*Loraine,*	Agriculture.
Harshman, Wayne,	*Griggsville,*	Electrical Eng'g.
Hart, William Edward,	*Brighton,*	Agriculture.
Harter, Vera Zeta,	*Wenona,*	General, L. and A.
Harvey, Wilber Richey,	*Dana,*	General, L. and A.
Hatch, Edith Irene,	*Richmond,*	General Science.
Haven, Clarence Irwin,	*Greenfield,*	Civil Eng'g.
Haven, Mabel Hallie,	*Greenfield,*	Household Sci., Agr.
Hawbaker, Elmer Jacob, LL.B., (*Univ. of Mich.*), 1904,	*Monticello,*	General, L. and A.
Hay, Howard Ridgeley,	*Urbana,*	General Science.
Hays, Harry Norman,	*Bement,*	Agriculture.
Heater, Elmer Franklin,	*Champaign,*	Electrical Eng'g.
Heidinger, Karl Barnikol,	*Belleville,*	Electrical Eng'g.
Heller, Herman Washington,	*Milwaukee, Wis.,*	Architecture.

Helmle, Henry Richardson,	*Springfield,*	Architecture.
Henn, Elmer,	*Brocton,*	General Science.
Henn, Otho Manson,	*Brocton,*	Electrical Eng'g.
Henry, Cecil Douglas,	*Urbana,*	Electrical Eng'g.
Hermann, Edgar Paul,	*Sterling,*	Chemical Eng'g.
Herndon, Richard Fleetwood,	*Springfield,*	General Science.
Herr, Albert Harry,	*Panola,*	General Science.
Herrcke, Ernest Arthur,	*LaSalle,*	Mechanical Eng'g.
Herrick, G Wirt,	*Farmer City,*	General, L. and A.
Heseltine, Eleanor De Muzeen,	*Chicago,*	General, L. and A.
Hicks, Marcus Harold,	*Chicago,*	Electrical Eng'g.
Higgins, Max Brown,	*Joliet,*	Mechanical Eng'g.
Hildebrandt, Paul Albert,	*Carpentersville,*	General, L. and A.
Hill, Harold Vater,	*Indianapolis, Ind.,*	Arch. Eng'g.
Hill, John William,	*Chicago,*	Civil Eng'g.
Hill, Lem Heath,	*Omaha, Neb.,*	Business, L. and A.
Hinman, Ralph Simpson,	*Chicago,*	General, L. and A.
Hobler, Atherton Wells,	*Batavia,*	Mechanical Eng'g.
Honeywell, Helen,	*Hoopeston,*	General, L. and A.
Hopkins, Mary Morton,	*Champaign,*	General, L. and A.
Horine, Ona Louise,	*Chicago,*	Household Sci., Agr.
Horn, Arthur Eimbech,	*Keokuk, Ia.,*	Electrical Eng'g.
Horr, Leonard Woods,	*LaGrange,*	Mechanical Eng'g.
Hoskins, Edna,	*LaGrange,*	Household Sci., Agr.
Hough, Henrietta How,	*Chicago,*	General, L. and A.
Howes, Harold Rohrer,	*Chicago,*	Civil Eng'g.
Hoy, Lucy Frances,	*Urbana,*	General, L. and A.
Hueckel, William Clarence,	*Caseyville,*	Civil Eng'g.
Huff, Ralph Thurmond,	*Lexington,*	Agriculture.
Huffman, Francis Marion,	*Vienna,*	Business, L. and A.
Hughes, Walter John,	*Yates City,*	Mechanical Eng'g.
Humphrey, Herbert Kay,	*Chicago,*	Electrical Eng'g.
Hunt, Ada Eleanor,	*Ridott,*	Chemistry.
Hunt, Charles Leigh,	*Minneapolis, Minn.,*	Business, L. and A.
Hunter, Colus Charles,	*Elmira, N. Y.,*	Mechanical Eng'g.
Hunter, David, Jr.,	*Rockford,*	Agriculture.
Huntington, Carroll Sowles,	*Onawa, Ia.,*	Mechanical Eng'g.
Hutchinson, Mary Anne,	*Capron,*	General Science.
Ide, Arthur William,	*Mineral,*	Civil Eng'g.
Ingham, Humphrey Dominic,	*Chicago,*	Civil Eng'g.

Jackson, George Rhine,	*Chicago,*	General, L. and A.
Jackson, Ralph Nathaniel,	*Aurora,*	Electrical Eng'g.
Jacobson, Seymour Alexander,	*Chicago,*	Civil Eng'g.
James, Clarence William,	*Mansfield,*	Agriculture.
James, Louise Ann,	*Amboy,*	General, L. and A.
Jasper, Edward Miron,	*Newton,*	Electrical Eng'g.
Jasper, Thomas McLean,	*Helligan Bodmin, Eng.,*	Civil Eng'g.
Johanning, Paul Martin,	*Champaign,*	Mechanical Eng'g.
Johnson, Aline Victoria,	*Geneseo,*	General, L. and A.
Johnson, Arthur Frank,	*Moline,*	Mechanical Eng'g.
Johnson, Edna Louise,	*Brimfield,*	Music.
Johnson, Elmer Leroy,	*Aurora,*	Electrical Eng'g.
Jones, Bertha Marie,	*Champaign,*	General, L. and A.
Jones, Edward Walter,	*Ravinia,*	Electrical Eng'g.
Jones, Robert Taylor,	*Vincennes, Ind.,*	Architecture.
Jordon, Bion Stanley, Jr.,	*Farmingham, Mass.,*	Business, L. and A.
Jordan, Helen Margaret,	*St. Joseph, Mich.,*	Household Sci., Agr.
Jordan, Robert James,	*Minneapolis, Minn.,*	General, L. and A.
Joy, Harold Crittenden,	*Wilmette,*	Electrical Eng'g.
Judson, Howard Monroe,	*Galesburg,*	Agriculture.
Juergens, Arthur Henry,	*Chicago,*	Civil Eng'g.
Kaar, Howard William,	*Princeton,*	General Science.
Kallstedt, Charles Henry,	*Aurora,*	Mechanical Eng'g.
Kamm, Oliver,	*Highland,*	Chemistry.
Kane, Charles Roscoe,	*Murphysboro,*	Electrical Eng'g.
Karkow, Andrew Sören,	*Chicago,*	Civil Eng'g.
Karch, Arthur William,	*Blue Island,*	Medical.
Karsten, Karl,	*Urbana,*	General, L. and A.
Katlinsky, Jacob,	*Chicago,*	Ceramics.
Kaupke, Lee Harry,	*Rock Island,*	Mechanical Eng'g.
Kealy, Eugene Patrick,	*Chicago,*	Civil Eng'g.
Kegley, Max M,	*Urbana,*	Business, L. and A.
Kellman, Karl Winton, Jr.,	*Chicago,*	General, L. and A.
Kendall, Relph Elmo,	*Naperville,*	Civil Eng'g.
Keown, Berthold Logan,	*Centralia,*	Mechanical Eng'g.
Kettron, Henry Pearson,	*Macomb,*	Civil Eng'g.
King, Hudson Marchant,	*Chicago,*	Civil Eng'g.

King, John Wilfred,	*Moline,*	Electrical Eng'g.
Kirkpatrick, Hugh Jacob,	*Roseville,*	Mechanical Eng'g.
Klein, William Julius,	*Madison, Ind.,*	Architecture.
Klett, Howard Charles,	*Plainview,*	Agriculture.
Klewer, William Leonard, Jr.,	*Chicago,*	Architectural Eng'g.
Kline, Otto Monroe,	*Bloomington,*	Mechanical Eng'g.
Knapp, Elmer Raymond,	*Pontiac,*	Architectural Eng'g.
Knauss, Douglas Stanley,	*Brooklyn, N. Y.,*	Mech. Eng'g.
Knepper, Myrtle Elizabeth,	*Highland, Kas.,*	Library.
Knerr, Edwin Richard,	*Mattoon,*	Civil Eng'g.
Knowles, Charles Harrison,	*Chicago,*	Civil Eng'g.
Knox, Olive Goldie,	*Oklahoma City, Okla.,*	General Science.
Kohn, Morris,	*Chicago,*	Civil Eng'g.
Korsmo, Edward Oswald,	*Elgin,*	Civil Eng'g.
Korup, Christian,	*Chicago,*	General Science.
Krigbaum, Helen Chloe,	*Decatur,*	Household Science, L. and A.
Krohn, Gretchen,	*Chicago,*	General, L. and A.
Kurtz, Edward,	*Olney,*	General Science.
LaBelle, Johnston Noble,	*Bloomington,*	Electrical Eng'g.
Laflin, Benjamin Thomas,	*Milan,*	Business, L. and A.
Lagerstrom, David Reuben,	*Dundee,*	Electrical Eng'g.
Lagniton, Isabelo Jemeno,	*E. Lopez, P.I.,*	Civil Eng'g.
Lambert, Juliette Vitalique,	*What Cheer, Ia.,*	General Science.
Landor, Harry,	*Canton, Ohio,*	General, L. and A.
Landor, Walter,	*Canton, Ohio,*	Civil Eng'g.
Landt, Charles Palmer,	*Chicago,*	Agriculture.
Langdon, Roy Monroe,	*Chicago,*	General, L. and A.
Langford, Jessie Lucine,	*Paxton,*	Household Science, L. and A.
Larkin, Francis DuLude,	*Chicago,*	Mechanical Eng'g.
Lauter, Carl John,	*Quincy,*	Chemistry.
Lavery, Irene Bernadette,	*Kankakee,*	General, L. and A.
Lawrence, William Harrison,	*Lexington,*	Agriculture.
Layer, Hugo,	*Chicago,*	Architectural Eng'g.
Leach, Robert Whittaker,	*Chicago,*	Mechanical Eng'g.
Leake, Mabel Emily,	*Amboy,*	Household Sci., Agr.
LeCrone, George Montgomery, Jr.,	*Effingham,*	Business, L. and A.
Lee, Otis Hoit,	*Aledo,*	Agriculture.

Leonard, Frances Bostwick, *Rockford,* General, L. and A.
Leonard, Harold Raymond, *Chicago,* Agriculture.
Leutwiler, Richard Walter, *Highland,* Mechanical Eng'g.
Leviton, Henry Isadore, *Chicago,* Electrical Eng'g.
Lewis, Edna, *Harrisburg,* General, L. and A.
Lewis, Hermon, *Champaign,* Business, L. and A.
Lewis, Julian Herman, *Cairo,* Medical.
Lewis, Richard Hanna, *Chicago,* Chemistry.
Licup, Roman, *Angeles, P. I.,* Civil Eng'g.
Lightall, Clarence, *Orange, Cal.,* Electrical Eng'g.
Lindblom, Ernest Francis, *Paxton,* Mechanical Eng'g.
Lindley, June, *Urbana,* General, L. and A.
Lindsey, William Judson, *Champaign,* Railway Eng'g.
Lines, Edwin Fuller, *Champaign,* Ceramics.
Lipps, Lloyd Herger, *S. Bethlehem, Pa.,* Mech. Eng'g.
Litchfield, William Edward, *Terre Haute, Ind.,* General, L. and A.
Littleton, Ananias Charles, *Bloomington,* Business, L. and A.
Livingston, Ray Clifford, *Mt. Vernon,* General Science.
Llewellyn, Ruth, *LaGrange,* General, L. and A.
Lloyd, James Henry, *Girard,* Agriculture.
Loehr, Theodore Edwin, *Carlinville,* Civil Eng'g.
Lohman, Frederick Charles, *Gibson City,* Civil Eng'g.
Lorimer, Leonard Joseph, *Chicago,* Railway Eng'g.
Loudon, Ross Childs, *Ritchie,* Business, L. and A.
Love, Howard Francis, *Sidney,* Agriculture.
Ludwig, Edward Roy, *Minneapolis, Minn.,* Architecture.
Lundahl, Raymond Rudolph, *Gibson City,* Civil Eng'g.
Luney, Ellzey Hogan, *DeKalb,* Business, L. and A.
Lurquin, John Joseph, *Rochelle,* Electrical Eng'g.
Lutton, Charles Edwin, *Chicago,* Civil Eng'g.
Lyman, George Robert, *Maroa,* Electrical Eng'g.
Lyman, Henry Pratt, *Ft.Smith, Ark.,* General, L. and A.
Lynch, Ralph Atkinson, *Peoria,* Chemical Eng'g.
Lynch, William Enright, *Chicago,* Electrical Eng'g.
McAllister, Walter Wallace, *Wenona,* Agriculture.
McCaskey, Paul Alfred, *Chicago,* Business, L. and A.
McClain, Fred H, *Lincoln, Neb.,* Electrical Eng'g.
McClung, David Arthur, *Mt. Carmel,* Civil Eng'g.
McClure, Rawley Whelan, *Gurnee,* Mechanical Eng'g.
McClurg, Nellie Irene, *Urbana,* Household Science, L. and A.

McCuen, Glenn William,	*Chebanse,* Mechanical Eng'g.
Macdonald, Ranald,	*Danville,* General, L. and A.
McDowell, Ishmael Worth,	*Centralia,* Electrical Eng'g.
McGinnis, Archibald, Jr.,	*Effingham,* Electrical Eng'g.
McHarry, Jessie,	*Rantoul,* General, L. and A.
McIntyre, Eva Lyle,	*Champaign,* General, L. and A.
McKean, Leonard Albert,	*Woodson,* General Science.
McKee, Paul Sloan,	*Tuscola,* General, L. and A.
McKim, James Lloyd,	*Tokio, Japan,* General, L. and A.
McKinnie, Earle Clarence,	*LeRoy,* Electrical Eng'g.
McKinney, Roy Harrison,	*Gifford,* Mechanical Eng'g.
McLean, John Crocker,	*Maroa,* Mechanical Eng'g.
McMillen, Sarah Grace,	*Macomb,* General, L. and A.
McPike, Josephine Mary,	*Alton,* General, L. and A.
McRobie, Jessie Barbara,	*Chicago,* General, L. and A.
Mahler, Hazel Lucia,	*Chicago,* General, L. and A.
Mail, Eugene Frederick,	*Robinson,* Civil Eng'g.
Mallary, Ernest Noel,	*Pontiac,* Electrical Eng'g.
Mallory, Burton Leroy,	*E. Branch, N. Y.,* Chemistry.
Mallory, Meredith,	*Batavia,* Mechanical Eng'g.
Malone, Edward,	*Gilman,* General, L. and A.
Mandel, Elias,	*Chicago,* General Science.
Mandeville, Hazel Denton,	*Champaign,* Household Science, L. and A.
Mann, Alban Whitford,	*Elgin,* Electrical Eng'g.
Martin, Maysie,	*Villa Grove,* General Science.
Martin, Sidney Griswold,	*Chicago,* Civil Eng'g.
Mason, Louis,	*Mt. Pulaski,* Business, L. and A.
Mason, Mayne Sequin,	*Buda,* Electrical Eng'g.
Mathis, Frances Willard,	*Champaign,* General, L. and A.
Matthewson, James Otis,	*DeKalb,* Agriculture.
Maver, David Blair,	*Chicago,* Civil Eng'g.
Maxey, Charles Lester,	*Mt. Vernon,* General, L. and A.
Maxwell, Lena,	*Lawrenceville,* General, L. and A.
Mayes, Corwin Spencer,	*Illiopolis,* Medical.
Mench, John George,	*Monticello,* Electrical Eng'g.
Meneley, Cora Frances,	*Rantoul,* General, L. and A.
Meserve, Theodore Decatur,	*Robinson,* Civil Eng'g.
Mess, Elsie,	*Benton Harbor, Mich.,* General, L. and A.

Mess, Lilian,	*Benton Harbor, Mich.,* General, L. and A.
Miles, James Shelby, Jr.,	*Petersburg,* Agriculture.
Miles, Laurence Hursh,	*Savanna,* Business, L. and A.
Miller, Carl Nelson,	*Indianapolis, Ind.,* Architecture.
Miller, Charles Murrel,	*Atlanta,* Agriculture.
Miller, Marie Maude,	*Lincoln,* General, L. and A.
Miller, Roy Curtis,	*Taylorville,* Mechanical Eng'g.
Mills, Guy,	*Palestine,* Civil Eng'g.
Mitchell, William Ursa,	*Ursa,* Mechanical Eng'g.
Mohlman, Floyd William,	*Beardstown,* General, L. and A.
Moon, Maud Maye,	*Tuscola,* General, L. and A.
Moore, Frances Cleveland,	*Louisville,* General Science.
Moore, Harry Albert,	*Oneida,* Electrical Eng'g.
Morehouse, Kent Wardall,	*Toulon,* Business, L. and A.
Morey, Lloyd,	*Urbana,* General, L. and A.
Morgan, Charles Leonard,	*Champaign,* Electrical Eng'g.
Morris, Bessie Lilian,	*Anderson, Ind.,* General, L. and A.
Morris, Mate Loduska,	*Oskaloosa, Ia.,* General, L. and A.
Morrow, Jessie Elaine, B.S., (*Okla. A.M. Coll.*), 1903,	*Stillwater, Okla.,* Household Science, Agr.
Morse, Wendell Richard,	*Little Rock, Ark.,* Civil Eng'g.
Morton, Joe Kelly,	*South Bend, Ind.,* Civil Eng'g.
Motsinger, Edward Francis,	*Canton,* Civil Eng'g.
Moyer, Marion Catherine,	*Chicago,* General, L. and A.
Mueller Gustav Henry,	*Carlinville,* Mechanical Eng'g.
Myers, Arthur Leslie,	*Harvey,* Electrical Eng'g.
Myers, Jacob William,	*Harrisburg,* General, L. and A.
Nafziger, Henry,	*Aurora,* Electrical Eng'g.
Neal, Harry Folsom,	*Charleston,* General, L. and A.
Neff, Edna Elizabeth,	*Petersburg,* General, L. and A.
Neininger, Alonzo Beda,	*Alton,* Civil Eng'g.
Nelson, Benjamin,	*Chicago,* Mechanical Eng'g.
Nelson, James Ray,	*Moline,* Mechanical Eng'g.
Nelson, Ralph Lewis,	*Moline,* Mechanical Eng'g.
Nettleton, Elizabeth,	*Ashton,* General, L. and A.
New, George Raymond,	*Howard, Kas.,* Agriculture.
Newcomb, Pearle Elizabeth,	*Champaign,* General, L. and A.
Nichol, Catherine Louise,	*Urbana,* General, L. and A.
Nichols, Edd Melancthon,	*Princeton,* General, L. and A.

Nichols, Harvey Baldwin,	*Michigan City, Ind.,*	Electrical Eng'g.
Nielsen, Gordon Frithiof,	*Paxton,*	General, L. and A.
*Noble, Earl Goddard,	*Galesburg,*	Mechanical Eng'g.
Noble, Ralph Mathew,	*Galesburg,*	Mechanical Eng'g.
Nuttall, Everett Franklin,	*Flat Rock,*	General Science.
O'Beirne, William Francis,	*Tolono,*	Civil Eng'g.
Odell, Frank Englehart,	*Evansville, Ind.,*	Mech. Eng'g.
O'Donnell, Francis Malachy,	*Chicago,*	Civil Eng'g.
O'Donnell, Hugh,	*Belvidere,*	Agriculture.
Ogden, Ethel Genevieve,	*Paris,*	General, L. and A.
Olmstead, Clarence Eugene,	*Genoa,*	Electrical Eng'g.
Olson, Gust, Jr.,	*Reynolds,*	Electrical Eng'g.
O'Neil, Laurence Winall,	*St. Louis, Mo.,*	Business, L. and A.
Oroso, Vicenta Ylazan,	*Banan, Bantangas, P. I.,*	Civil Eng'g.
Pagels, Irving Edward,	*Dwight,*	Civil Eng'g.
Palmer, Audrie May,	*Chicago,*	General, L. and A.
Palmer, Wayne Platter,	*Chicago,*	Civil Eng'g.
Palmquist, David Roy,	*Moline,*	Electrical Eng'g.
Parker, Gilbert Walter,	*Champaign,*	Civil Eng'g.
Parker, Hale Giddings,	*Chicago,*	Medical.
Parker, Paul Clinton,	*Mattoon,*	Mechanical Eng'g.
Parkhurst, Roger William,	*Chicago,*	Civil Eng'g.
Parrish, Carrie Marie,	*Momence,*	General, L. and A.
Paul, Harry John,	*Chicago,*	Mechanical Eng'g.
Paulson, Norman Boyer,	*Lockport,*	Municipal Eng'g.
Pease, Lewis Adams,	*Highland,*	Electrical Eng'g.
Pegram, William Alexander,	*Lincoln,*	Mechanical Eng'g.
Pereira, Morton Leve,	*Chicago,*	Civil Eng'g.
Perry, Eleanor Farrand,	*Oklahoma City, Okla.,*	General, L. and A.
Pervier, Mabel Inez,	*Sheffield,*	Household Science, L. and A.
Peterson, Alvin Ray,	*Cerro Gordo,*	General, L. and A.
Peterson, Erle Sherman,	*Nunda,*	Mechanical Eng'g.
Petry, Charles Aloysius,	*Chicago,*	Civil Eng'g.
Philips, Wilson Alexander,	*Urbana,*	Chemical Eng'g.
Phillips, Lester Leroy,	*Sterling,*	Electrical Eng'g.
Pickering, John Lyle, Jr.,	*Springfield,*	Chemical Eng'g.

*Deceased.

Pickett, Roy Ernest,	*Chicago,*	Architectural Eng'g.
Pieper, John,	*Granite City,*	Electrical Eng'g.
Pierce, Maurice Campbell,	*Madison, Wis.,*	General, L. and A.
Pierson, Roland Decker,	*Augusta,*	Electrical Eng'g.
Pincomb, Helen Maude,	*Lenexa, Kas.,*	Household Science, Agr.
Pistorius, Barnhard Henry,	*Chicago,*	Architectural Eng'g.
Pletcher, Erno Baker,	*Rochester, Ind.,*	General, L. and A.
Polkowski, Harry,	*Chicago,*	Agriculture.
Pollock, Charles William,	*Seaton,*	Electrical Eng'g.
Pond, Frank Hayward,	*Chicago,*	Mechanical Eng'g.
Ponder, Ray Boyd,	*Hammond,*	Mechanical Eng'g.
Poole, Lilian May,	*Polo,*	General, L. and A.
Popp, Paul Fred,	*Chicago,*	Mechanical Eng'g.
Portis, Henry,	*Chicago,*	Chemical Eng'g.
Poston, Emmett Vincent,	*Crawfordsville, Ind.,*	General, L. and A.
Potter, Curran Edgar,	*Quincy,*	Agriculture.
Pouk, Margaret Finlayson,	*Streator,*	Music.
Powel, Ellen Catherwood,	*Taylorville,*	General, L. and A.
Prather, Fred Vogel,	*Columbus, Ind.,*	Architecture.
Pricer, Thomas Newton,	*Rossville,*	Mechanical Eng'g.
Purnell, Vern,	*Mahomet,*	Mechanical Eng'g.
Putnam, Leigh Burtis,	*Oak Park,*	General Science.
Ralston, Stuart Albert,	*Caledonia,*	Electrical Eng'g.
Ramey, George Erwin,	*Champaign,*	Architecture.
Ramp, Waldow Lester,	*Knoxville,*	Agriculture.
*Rand, Walter Albert,	*Chicago,*	Agriculture.
Randall, Arthur Edwin,	*Cambridge,*	Civil Eng'g.
Ranson, George Audas,	*Havana,*	Mechanical Eng'g.
Rathbun, Acors Earl,	*Glen Ellyn,*	Electrical Eng'g.
Ray, Robert Daniel,	*Chicago,*	Mechanical Eng'g.
Ream, Walter Joseph,	*Peru,*	Medical
Reed, Chester Otis,	*Pittsford, N. Y.,*	Agriculture.
Reimund, Grace Aileen,	*Sullivan,*	General, L. and A.
Reinhardt, Rhoda Margaretha,	*Kansas City, Mo.,*	General, L. and A.
Renard, George Albert,	*E. St. Louis,*	General Science.

*Deceased.

Renich, Katherine Louise,	*Woodstock,*	Household Science, L. and A.
Renz, Myrtle Anna,	*Henning,*	General, L. and A.
Retz, Jeanette Estelle,	*Ottawa,*	General, L. and A.
Rhoads, Robert Bell,	*Indianapolis, Ind.,*	Architecture.
Rice, Charles Clyde,	*Bone Gap,*	Civil Eng'g.
Richardson, Ross,	*Toledo,*	Civil Eng'g.
Ricketts, Claude Merrill,	*Forrest,*	General, L. and A.
Riddle, Lawrence Scott,	*Mattoon,*	General, L. and A.
Ridgeley, Temple Elliott,	*Springfield,*	Business, L. and A.
Ries, Lester Samuel,	*Chicago,*	Chemical Eng'g.
Rietz, Nellie Melissa,	*Port Washington, O.,*	Household Science, S.
Rife, Willard Orrin	*Lena,*	General, L. and A.
Ritchey, Horace Edgar,	*Savanna,*	Electrical Eng'g.
Rives, Kent King,	*Rock Bridge,*	General, L. and A.
Roark, Raymond Jefferson,	*Richmond, Ky.,*	Civil Eng'g.
Roberts, Harry Vivian,	*Morning Sun, Ia.,*	Civil Eng'g.
Rogers, Anna Sophie,	*Bushnell,*	General, L. and A.
Rogers, Clarence Alvin,	*Wyoming,*	Agriculture.
Rogers, Ethelyn Alice,	*Wyoming,*	General, L. and A.
Rogers, Vera Holcombe,	*Washington, Ia.,*	General, L. and A.
Rogers, William Turner,	*Hume,*	Civil Eng'g.
Rood, John Harold,	*Terre Haute, Ind.,*	Business, L. and A.
Rosencrans, Fred Barnum,	*Waukegan,*	Civil Eng'g.
Rowden, Lottie Della,	*Cuba,*	General, L. and A.
Rowe, Edwina Walker,	*Owensboro, Ky.,*	General, L. and A.
Rowley, Allen Kirke,	*Chicago,*	Railway Eng'g.
Ruehe, Harrison August,	*Waukegan,*	Agriculture.
Ruff, Edgar John,	*Quincy,*	Chemistry.
Rule, Eva Ara,	*Cairo,*	General, L. and A.
Rusk, Erva Merle,	*Rantoul,*	General, L. and A.
Ruskamp, William Henry,	*Quincy,*	Civil Eng'g.
Russell, John Tyndall,	*Denver, Colo.,*	Arch. Eng'g.
Russell, Lewis Melvin,	*Pana,*	Business, L. and A.
Russell, William Emmet,	*Decatur,*	Business, L. and A.
Rutledge, George,	*Menard,*	General Science.
Rutledge, William Askins,	*Evanston,*	Civil Eng'g.

Sachsel, Otto Roscoe,	*Chicago,*	Chemistry.
Sammons, William Edward,	*Towanda, Pa.,*	Arch. Eng'g.
Sampson, Lotta Anne Delana,	*Petersburg,*	General, L. and A.
Sato, Toshio,	*Higasiku, Osaka, Japan,*	Mechanical Eng'g.
Sawtell, William Amos,	*Chicago,*	Agriculture.
Saxe, Albert Moore,	*Aurora,*	Architecture.
Scanlan, Delia Lunette,	*Chicago,*	General, L. and A.
Scanlan, Jack Addison,	*Chicago,*	Civil Eng'g.
Schaefer, George Charles,	*Quincy,*	Electrical Eng'g.
Schell, Edward John,	*Keokuk, Ia.,*	Civil Eng'g.
Schickedanz, Simon Aaron,	*Chenoa,*	Mechanical Eng'g.
Schill, Gertrude Bender,	*Chicago,*	General, L. and A.
Schillo, Edwin William,	*Chicago,*	General, L. and A.
Schmelzle, George Henry,	*Freeport,*	Business, L. and A.
Schoch, William George,	*Tower Hill,*	Civil Eng'g.
Scholes, Walter Payson,	*Champaign,*	Electrical Eng'g.
Scholnitzky, Isidore Morris,	*Greenwood, Miss.,*	Civil Eng'g.
Schrader, Arthur Charles,	*Murphysboro,*	Mechanical Eng'g.
Schulzke, Otto Fred,	*Springfield,*	Chemistry.
Schuster, George,	*Lincoln,*	Mechanical Eng'g.
Schwartz, Lloyd,	*Golden,*	Civil Eng'g.
Scott, Frances Marie,	*Jacksonville,*	General, L. and A.
Scott, Norman Bruce,	*Chicago,*	Medical.
Searle, John Clinton,	*Geneseo,*	General, L. and A.
Seebach, Marie,	*Peru,*	General, L. and A.
Seib, Eugene Charles,	*Belleville,*	Electrical Eng'g.
Sellards, John Armstrong,	*Champaign,*	General, L. and A.
Sercombe, Rupert John,	*Elgin,*	Civil Eng'g.
Sesler, Philip Ray,	*Pontiac,*	General, L. and A.
Seyl, Peter Walter,	*Chicago,*	Civil Eng'g.
Seymour, Curtis T,	*Champaign,*	Agriculture.
Shapland, Cecil James,	*Saunemin,*	Civil Eng'g.
Shaw, Ben Bruce,	*Canton,*	Railway Eng'g.
Shaynin, Mitchell Henry,	*Oak Park,*	General, L. and A.
Sherman, Victor Louis,	*Chicago,*	Mechanical Eng'g.
Shipley, Pearl Elnora,	*Petersburg,*	Music.
Shirk, Joseph Raymond,	*Champaign,*	Business, L. and A.
Shrader, Justin Winfred,	*Mattoon,*	General, L. and A.
Signor, Nellie Marie,	*Urbana,*	General, L. and A.
Simmons, John William,	*Keithsburg,*	Civil Eng'g.

Simpson, Orman Manard, B.L., (*Highland Coll., Ky.*), 1907,	*Alexis,*	Chemistry.
Sinclair, John George,	*Chicago,*	General, L. and A.
Sinclair, Thomas Almarin,	*Ashland,*	Agriculture.
Skinner, Richard Elijah,	*Champaign,*	Civil Eng'g.
Skoog, Paul Leonard,	*Springfield,*	Chemistry.
Slavik, Edward Frank,	*Chicago,*	Chemical Eng'g.
Slosson, Robert Lyon,	*Park Ridge,*	Civil Eng'g.
Smith, Alfred Hazel,	*Keithsburg,*	General Science.
Smith, Dwight Leod,	*Freeport,*	Electrical Eng'g.
Smith, Gertrude Cane,	*Evanston,*	General, L. and A.
Smith, Glenn Calvin,	*Cuba,*	General, L. and A.
Smith, Grace Lee,	*Anna,*	General, L. and A.
Smith, Mabel Clair,	*Chicago,*	Household Science, L. and A.
Smith, Paul Ardell,	*Plainfield,*	Mechanical Eng'g.
Smith, Samuel LeRoy,	*Sparta,*	Electrical Eng'g.
Smoot, Harold Lyman,	*Petersburg,*	General, L. and A.
Snook, Vera Jessie,	*Ottawa,*	General, L. and A.
Snow, Charles Howard,	*Bloomington,*	Agriculture.
Snow, Wilbur Chancey,	*Sugar Grove,*	Mechanical Eng'g.
Solfisburg, Christian Harrison,	*Aurora,*	General, L. and A.
Souders, Ralph Henry,	*Rock Island,*	Mechanical Eng'g.
Specht, Arthur Leo,	*Washington,*	Electrical Eng'g.
Speedie, William Warren,	*Gibson City,*	Electrical Eng'g.
Spellerberg, Leo John,	*Highland,*	Chemistry.
Spencer, Edwin Rollin,	*Rushville,*	General, L. and A.
Spencer, Watson Orr,	*Catlin,*	Chemical Eng'g.
Spengler, Lewis Wilmer,	*Roby,*	Civil Eng'g.
Sponsel, John Gray,	*Chicago,*	Mechanical Eng'g.
Sponsler, John McClure,	*Aledo,*	Mechanical Eng'g.
Sprague, Villa Mae,	*Lockport,*	Household Science, L. and A.
Spray, Dorothy Gunn,	*Arlington Heights,*	General, L. and A.
Staley, Anne Harwood,	*Champaign,*	General, L. and A.
Stalker, James Robinson,	*Terre Haute, Ind.,*	Civil Eng'g.
Stanton, Albert Jackson,	*Pana,*	Civil Eng'g.
Stedman, William Henry, Jr.,	*Champaign,*	Business, L. and A.
Steingard, Joseph Nathan,	*Chicago,*	Electrical Eng'g.
Stephens, Robert Bruce,	*Champaign,*	Agriculture.

Stephenson, Roger Addison,	*Carlyle,* General Science.
Sternberg, John Frederick,	*Fulton,* Agriculture.
Stewart, Edith Eliza,	*Urbana,* General, L. and A.
Stewart, Homer Willis,	*Princeton,* Electrical Eng'g.
Stilz, Clara Louise,	*Sublette,* General, L. and A.
Stinson, Lawrence Browning,	*Mt. Vernon, Ind.,* Business, L. and A.
Stocker, Cornelius,	*Highland,* Agriculture.
Stocker, Lawrence Orville,	*Pana,* Electrical Eng'g.
Stolp, Ray Norton,	*Philadelphia, Pa.,* Civil Eng'g.
Stone, Mabel Gertrude,	*Mattoon,* General, L. and A.
Stout, Frank Lewis,	*Glenarm,* Agriculture.
Straight, Gladys Lee,	*Fonda, Ia.,* General, L. and A.
Strauch, Bertha Henrietta,	*Chadwick,* Household Science, L. and A.
Strawn, Evalyn,	*Albion,* General, L. and A.
Stromquist, Walter Gottfrid,	*Lindsborg, Kan.,* Municipal Eng'g.
Sudbrink, Roy Elliott,	*Beardstown,* General, L. and A.
Sumay, Felix Jose,	*Buenos Ayres, Arg.,* Civil Eng'g.
Sundeen, Ruby Marie,	*Moline,* General, L. and A.
Swanberg, Florena Pearl,	*Paxton,* Household Science, L. and A.
Swannell, Horace Conrad,	*Kankakee,* Mechanical Eng'g.
Swartout, Cornelius,	*Reyonlds,* Mechanical Eng'g.
Swartz, Nelle Leona,	*Urbana,* Household Science, L. and A.
Swern, Perry Weston,	*Chicago,* Architectural Eng'g.
Swett, Leslie Wells,	*Blue Island,* Mechanical Eng'g.
Symons, Thomas Augustas,	*Mazon,* Agriculture.
Taniyama, Sadakichi,	*Okayama, Japan,* Civil Eng'g.
Tanner, Florence Mae,	*Aurora,* Household Science, L. and A.
Targett, Stanley Elmer,	*Cohoes, N. Y.,* Chemistry.
Tate, Harry Lawson,	*Vandalia,* Electrical Eng'g.
Taylor, Ashley Breckenridge,	*Alton,* Municipal Eng'g.
Taylor, Gertrude,	*Aurora,* Household Science, Agr.
Taylor, Raymond Arthur,	*Burlington, Ia.,* Electrical Eng'g.
Terrall, John Jay,	*Reinbeck, Ia.,* General Science.
Thatcher, George William,	*River Forest,* Mechanical Eng'g.
Thomas, John Dodson,	*Chicago,* General, L. and A.
Thomas, James Henry,	*Lovejoy,* General, L. and A.

Thompson, Frank Arthur,	*Ft. Wayne, Ind.,*	Electrical Eng'g.
Thompson, Milton Winfield,	*Ogden,*	General Science.
Thrasher, Charles Orval,	*Gilman,*	Electrical Eng'g.
Thrasher, Harry Maxwell,	*Pontiac,*	Architectural Eng'g.
Thurston, Helen Marie,	*Winnetka,*	Household Science, S.
Tietje, Ralph Earle,	*Urbana,*	General, L. and A.
Tilton, George Francis,	*Chicago,*	Architectural Eng'g.
Tienen, John Victor,	*Chicago,*	General Science.
Tippitt, William Howard,	*Elizabeth,*	Agriculture.
Titcomb, Evelyn Baker,	*Harvard,*	General, L. and A.
Tooker, Leroy B,	*Harvard,*	General, L. and A.
Tracy, Glenn Kilmer,	*Osco,*	Agriculture.
Trees, Charles Emmett,	*Frankfort, Ind.,*	Civil Eng'g.
Trimble, Carleton Thompson,	*Trimble,*	General, L. and A.
Tryon, Charles Leon,	*Woodstock,*	Civil Eng'g.
Tupper, Henry Andrew,	*Kewance,*	General, L. and A.
Turk, Bella Selma,	*Litchfield,*	General, L. and A.
Turner, Arthur Lynn,	*Wenona,*	Agriculture.
Turner, Emery Adell,	*Wenona,*	Agriculture.
Turner, Ernest DeWitt,	*Wenona,*	General, L. and A.
Turner, George Walker,	*Virginia,*	General, L. and A.
Turner, Walter Van,	*Toledo, Ohio,*	Mechanical Eng'g.
Turnes, Samuel Jacob,	*Chicago,*	Civil Eng'g.
Twist, Clarence Cicero,	*Rochester,*	Agriculture.
Twist, John Francis,	*Rochester,*	Agriculture.
Tyler, Charles Vernon,	*Plano,*	Civil Eng'g.
Tyler, E Lloyd,	*Plano,*	Civil Eng'g.
Ullman, Alvin Ellsworth,	*Moline,*	Mechanical Eng'g.
Valerio, Ricardo,	*Saltillo, Mexico,*	Mechanical Eng'g.
Vance, Joseph Wampler,	*Springfield,*	Civil Eng'g.
VanDervoort, Jameson,	*Chicago,*	Civil Eng'g.
VanEtten, Claire Trumbo,	*Mendota,*	Electrical Eng'g.
VanSchoick, Elmer Holmes,	*Bloomington,*	Civil Eng'g.
VanZandt, Arnold Cyrus,	*Champaign,*	Civil Eng'g.
Vear, Charles Edwin,	*Chicago,*	Business, L. and A.
Vernon, Willett Blayney,	*Chicago,*	Mechanical Eng'g.
Viner, Charles Hastings,	*Morris,*	General, L. and A.
Vittum, Elden Faber,	*Knoxville,*	Electrical Eng'g.
Vollentine, Lyman George,	*Taylorville,*	General, L. and A.
Voorhees, Lucien Whitman,	*Blue Island,*	Agriculture.

Waddell, Mary Lucile,	*Princeton,*	Household Science, Agr.
Wakeley, Leslie Marion,	*Harvard,*	Agriculture.
Waldie, James Robert Rathie,	*Chicago,*	Agriculture.
Waldron, Harris Richard,	*Oak Park,*	Architecture.
Wallace, Frank Miller,	*Chicago Heights,*	Ceramics.
Wallace, Helen Isabel,	*Homer,*	Music.
Wallace, William Arthur,	*Jackson, Ohio,*	Mechanical Eng'g.
Walton, Thomas William,	*Rice's Landing, Pa.,*	Architecture.
Wanderer, Oscar William Rudolph,	*Chicago,*	Civil Eng'g.
Wangelin, Herman Grover,	*Belleville,*	Electrical Eng'g.
Ward, Elde Hewlitt,	*Rantoul,*	Medical.
Ward, Frank Anthony,	*Sterling,*	Architectural Decoration.
Ward, George Snyder,	*Benton,*	Business, L. and A.
Ware, Willis Craig,	*Chicago,*	Chemistry.
Wascher, Frederick Martin William,	*Champaign,*	Agriculture.
Watkins, Evart Montgomery,	*Bloomington,*	Civil Eng'g.
Watson, Alice Erwin,	*Mt. Vernon,*	General, L. and A.
Watson, William Sumner, Jr.,	*Ottawa,*	Electrical Eng'g.
Way, Clyde Lynn,	*Chicago,*	Electrical Eng'g.
Weaver, Carl Franklin,	*Canton,*	Civil Eng'g.
Webb, Charles Provine,	*E. St. Louis,*	General, L. and A.
Webber, Hugh E,	*Ludlow,*	Electrical Eng'g.
Weber, Richard Bruno,	*Chicago,*	Civil Eng'g.
Weeks, Charles Elmer,	*Bloomington,*	Electrical Eng'g.
Weeks, Lyman S,	*Jackson, Mich.,*	Mechanical Eng'g.
Weeks, Robert Ellsworth,	*Chicago,*	Electrical Eng'g.
Weitzenfeld, David Henry,	*Chicago,*	Business, L. and A.
Welden, Edmund Amos,	*Wheaton,*	Civil Eng'g.
Wellman, Iva Dorrit,	*Champaign,*	Music.
Wellman, Orpha May,	*Champaign,*	General, L. and A.
Wells, Ralph Ray,	*Wenona,*	General, L. and A.
Wenholz, Walter William,	*Algonquin,*	Electrical Eng'g.
Wertz, Arthur Haymond,	*Kankakee,*	Agriculture.
Western, Lea Miron,	*Dundee,*	General Science.
Wheeler, Arthur Wayne,	*Bellflower,*	Civil Eng'g.
White, Alvin Chester,	*Chicago,*	Civil Eng'g.
White, Edna Edith,	*Champaign,*	General, L. and A.

White, Emily Mildred,	*St. Joseph Mo.,*	Household Science, S.
White, Fred Eugene,	*Hamlet,*	Electrical Eng'g.
White, Kingsley Barbour,	*Boise, Idaho,*	Civil Eng'g.
White, Lyde Evangeline,	*Urbana,*	General, L. and A.
Whitnall, Clarence Arthur,	*Peoria,*	Mechanical Eng'g.
Whittum, Fred Horace,	*Herscher,*	Chemical Eng'g.
Whittum, Samuel Harrie,	*Herscher,*	General, L. and A.
Wilcox, George Edward,	*Minonk,*	General Science.
Wiley, George Glenn,	*Warren,*	Mechanical Eng'g.
Wiley, Joseph Paul,	*Sullivan,*	Business, L. and A.
Wilkins, John Floyd,	*Summitville, Ind.,*	Agriculture.
Wilkins, Raymond Harvey,	*Champaign,*	Ceramics.
Williams, Robert Leslie,	*Springfield,*	General, L. and A.
Willis, Benjamin Chestnut,	*Crawfordsville, Ind.,*	Business, L. and A.
Wilson, Grover C,	*Champaign,*	Business, L. and A.
Wilson, Horace Smith,	*Chicago,*	Electrical Eng'g.
Wilson, Nelle Mae,	*Macomb,*	Library, L. and A.
Wilson, Ross B,	*Kankakee,*	Mechanical Eng'g.
Wise, Earle DeWitt,	*Champaign,*	Medical.
Wissing, Clement Bernard,	*Vincennes, Ind.,*	Mechanical Eng'g.
Withers, Llora,	*Lexington,*	General, L. and A.
Witt, Adaline Elizabeth,	*Kane,*	General Science.
Witte, Hulda Catherine,	*Pekin,*	General, L. and A.
Wolf, Luther Otterbein,	*Keithsburg,*	Civil Eng'g.
Wood, Margaret Crowell,	*Champaign,*	Library, L. and A.
Woodford, Harriet Louise,	*Buffalo, N. Y.,*	General, L. and A.
Woodin, Charles Kahlke,	*Rock Island,*	Mechanical Eng'g.
Woodward, Homer Bement,	*Maroa,*	Civil Eng'g.
Wooley, Robert Maxwell,	*Chicago,*	Civil Eng'g.
Woolington, Leon Samuel,	*Champaign,*	Civil Eng'g.
Woolson, Harry Orville,	*Aurora,*	Electrical Eng'g.
Wooters, Leland Magness,	*Carlinville,*	General, L. and A.
Worsham, Walter Boatman,	*Paris,*	Electrical Eng'g.
Wright, Mary Eleanor,	*Dwight,*	General, L. and A.
Wyeth, Elizabeth Anne,	*Charleston,*	General, L. and A.
Wyeth, Walter Heald,	*Chicago,*	Architectural Eng'g.
Yapp, William Wodin,	*Champaign,*	Agriculture.
Yoder, Maurice Emanuel,	*Topeka, Ind.,*	Agriculture.

Young, Atha Audley,	*Farmer City,*	Music.
Young, Benjamin Carey,	*Chicago,*	Architectural Eng'g.
Yowell, John B,	*Paris,*	General Science.
Zearing, Louis Andrew,	*Princeton,*	General, L. and A.
Zerbee, Leigh Francis,	*Bellefontaine, Ohio,*	Railway Eng'g.
Zetek, James,	*Chicago,*	General Science.
Zimmerman, Aaron Wilbur,	*Tiskilwa,*	Mechanical Eng'g.

SPECIALS

Abrams, Samuel,	*Champaign,*	Agriculture.
Acom, William Henry,	*Lake City,*	Agriculture.
Aguirre, Matias,	*Coahuila, Mexico,*	Civil Eng'g.
Ahlgrim, Fred Hector,	*Michigan City, Ind.,*	Architecture.
Akester, Jessie Elvana,	*Farina,*	Art and Design.
Alcott, Guy Fisher,	*Fairview,*	Agriculture.
Allyn, Orr,	*Modesto,*	Agriculture.
Ames, Benjamin Hazen,	*Kaneville,*	Agriculture.
Anderson, Albert,	*Homer,*	Agriculture.
Anderson, Grace May,	*Champaign,*	Music.
Armstrong, George W,	*Bondville,*	Agriculture.
Bain, Mrs. Mary Wright, A.B., (*Univ. of Wis.*), 1902,	*Champaign,*	General, L. and A.
Baird, Roy Wilson,	*Morrison,*	Agriculture.
Baker, George Willard,	*Goodenough,*	Agriculture.
Baker, Pearl Rawson,	*Irving,*	Agriculture.
Baker, Ray Churchill,	*River Forest,*	Agriculture.
Ball, Jonas Hamilton,	*Toluca,*	Agriculture.
Barber, Luther Hall,	*Chicago,*	Agriculture.
Barker, George,	*Bondville,*	Agriculture.
Barnes, John Thomas,	*Peoria,*	Agriculture.
Barnhart, Mabel Olive,	*Urbana,*	General, L. and A.
Barrett, Mrs. Anne Turner,	*Urbana,*	General, L. and A.
Barrett, Claudia Mae,	*Princeville,*	Household Science, S.
Barrett, Julia Gale,	*Cincinnati, Ohio,*	General, L. and A.
Bassett, Clifton Herbert,	*LaSalle,*	Agriculture.
Bean, Earl George,	*Hampshire,*	Agriculture.
Benitz, William Agar,	*Las Rosas, Argentina,*	Agriculture.
Beresford, Merle,	*Owensville, Ind.,*	Music.

Berthold, Lewis Ralph,	*Aurora,*	Agriculture.
Biggers, LeRoy,	*Richmond,*	Agriculture.
Black, Robert Overton,	*Urbana,*	Agriculture.
Black, Robert Quincy,	*Urbana,*	Agriculture.
Boggs, Mrs. Grace Lindley,	*Urbana,*	Art and Design.
Borden, Leslie Frank,	*Lawrenceville,*	General, L. and A.
Boughton, David Webster,	*Plainfield,*	Agriculture.
Bowers, Joseph Richard,	*Virginia,*	Agriculture.
Bracker, Mabel,	*Hillsdale,*	Household Science, Agr.
Braeuninger, Ella Christine,	*Champaign,*	General, L. and A.
Brasfield, Bryant Lester,	*Eureka,*	Agriculture.
Breneman, Mrs. Harriet May,	*Urbana,*	Music.
Brooks, Fannie Maria,	*Saunemin,*	General, L. and A.
Brooks, Zella,	*St. Anne,*	Art and Design.
Brophy, Frank Joseph,	*Chicago,*	Electrical Eng'g.
Brougham, Maude Victoria,	*Sault Ste. Marie, Mich.,*	General, L. and A.
Brown, Jesse Leroy,	*Wyoming,*	Agriculture.
Bruggeman, August Ernst,	*Brake d. Lemgo, Germany,*	Mechanical Eng'g.
Buenger, William George,	*Edwardsville,*	Agriculture.
Bunch, Joseph Raymond,	*McClure,*	Agriculture.
Burke, Ira Hanna,	*Urbana,*	Agriculture.
Burrill, Irene Elsa,	*Urbana,*	Music.
Bush, Julia Florence,	*Urbana,*	Household Science, Agr.
Callagan, Rilla May,	*Sheridan,*	Household Science, L. and A.
Cannon, Brenda Whittier,	*Milwaukee, Wis.,*	Music.
Carlson, Charles Algot,	*Chicago,*	Mechanical Eng'g.
Cartwright, Charles Findlay,	*Bailey, Tenn.,*	Civil Eng'g.
Case, Flora Margaret,	*Dunlap,*	General, L. and A.
Case, Lura Maud,	*Alta,*	Household Science, Agr.
Cass, Elizabeth Henrietta,	*Chicago,*	General, L. and A.
Caveney, Frank Marion,	*Crescent City,*	Agriculture.
Cederberg, John Oscar,	*St. Paul, Minn.,*	Arch. Decoration.
Challacombe, Harvey Edwin,	*Challacombe,*	Agriculture.
Chandler, Sarah Preswick,	*Pittsburg, Kas.,*	General, L. and A.
Christie, Morrison,	*Evanston,*	Agriculture.
Clark, Mrs. Alice Broaddus, B.S., 1891,	*Urbana,*	General, L. and A.

Clark, Everett,	*Rushville,*	Electrical Eng'g.
Clark, Ray Wilson,	*Clarence,*	Civil Eng'g.
Coffin, Lulu Linetta,	*Salem,*	Music.
Cogdal, May Christina,	*Chicago,*	General, L. and A.
Conard, Harriett Zoe,	*Monticello,*	General, L. and A.
Condrey, Chase Logan,	*Palestine,*	Agriculture.
Conklin, James Henry,	*Rockton,*	Agriculture.
Constant, Clarence R,	*Williamsville,*	Agriculture.
Cooper, Mark Ament,	*Farmingdale,*	Agriculture.
Copeland, Ira Stafford,	*Chicago,*	Mechanical Eng'g.
Corzine, Leslie Clay,	*Assumption,*	Agriculture.
Craig, David Wesley,	*Wilmington,*	Agriculture.
Craig, George Herbert,	*Elwood,*	Agriculture.
Craig, Lewis Penwell,	*Shelbyville,*	Agriculture.
Crane, Robert Cail,	*Lomax,*	Agriculture.
Crane, Stanley Parker,	*Milwaukee, Wis.,*	Architecture.
Daehler, Alvin August,	*Chadwick,*	Electrical Eng'g.
Daggett, John Birney,	*Chicago,*	Agriculture.
Dalbey, Will Edward,	*Taylorville,*	Agriculture.
Davis, Clyde Wilfred,	*Blackstone,*	Agriculture.
Davis, Thomas George,	*DeSoto,*	Agriculture.
Depler, James Dean,	*Lewistown,*	Agriculture.
Derrough, Blanche,	*Champaign,*	Music.
Dick, Elma Jane,	*Philo,*	Music.
Dickenson, Robert William,	*Paris,*	Agriculture.
Dolph, Arthur H,	*Fisher,*	Electrical Eng'g.
Donahue, William Joseph,	*Cullen,*	Agriculture.
Doyle, Herbert Frank,	*Sparland,*	Agriculture.
Drish, Frances,	*Champaign,*	Art and Design.
Dudley, Walter Hamilton,	*Evanston.*	Electrical Eng'g.
Dunlap, Samuel Draper,	*Oak Park,*	Agriculture.
Durst, Charles Elmer,	*Quincy,*	Agriculture.
Eaton, Edward Francis,	*Warden,*	Agriculture.
Eaton, Harry Lee,	*Elwood,*	Agriculture.
Edbrooke, Gertrude Elizabeth,	*Oak Park,*	Music.
Edwards, Frank,	*Maroa,*	Agriculture.
Edwards, George Grant,	*McLeansboro,*	Agriculture.
Ehresman, William Roy,	*Roberts,*	Agriculture.
Eliason, Rolla Jasper,	*Zion City,*	Agriculture.
Eliason, Taylor William,	*Zion City,*	Agriculture.
Elliott, James Mansfield,	*Chebanse,*	Agriculture.

Eminger, Evan Bowker,	*Gibson City,*	Agriculture.
Emmerson, Ethel Mae,	*Lincoln,*	General, L. and A.
Esmond, Oakley Wright,	*Ottawa,*	Agriculture.
Ewing, George Ewart,	*Arcola,*	Agriculture.
Fairbanks, Jennie,	*Mansfield,*	Music.
Farmer, Paul Melville,	*Springfield,*	Electrical Eng'g.
Feind, Frances Marguerite, B.L.S., 1907,	*Chicago Heights,*	Music.
Flanders, Paul Aiken,	*Glencoe,*	Agriculture.
Floyd, Homer Gabbert,	*Decatur,*	Agriculture.
Fombelle, Just Samuel,	*Decatur,*	Agriculture.
Forbes, Zephaniah Clark,	*Pueblo, Colo.,*	Chemistry.
Foreman, Alvin Claude,	*Pittsfield,*	Agriculture.
Forrest, Elizabeth, B.L.S., 1906,	*Chicago,*	General, L. and A.
Fraser, Mrs. Alice Eaton,	*Champaign,*	Music.
Freeland, Chesley Barber,	*Dalton City,*	Agriculture.
Galbraith, Alonzo Bowers,	*Chicago,*	Railway Eng'g.
Gallion, Grace Margaret,	*St. Joseph,*	Music.
Gallup, Harvey Wetmore,	*Pontiac,*	Agriculture.
Garnett, Percie Ellen,	*Plymouth,*	Household Science, L. and A.
Garrett, Frank James,	*Minonk,*	Agriculture.
Gates, Neil Herbert,	*Terre Cotta,*	Ceramics.
Gatzert, Nathan Eddy,	*Chicago,*	Agriculture.
Gebhart, Elmer Franklin,	*Stonington,*	Agriculture.
Gentry, William Sumner, Jr.,	*Frankfort, Ind.,*	Art and Design.
Georg, Victor Emil,	*Springfield,*	Arch. Decoration.
Gere, Hazel Harriet,	*Urbana,*	Household Science, Agr.
Gilmore, Glenn Spear,	*Aledo,*	Agriculture.
Gingerich, Ralph Pretty,	*Panola,*	Agriculture.
Ginocchio, Frank,	*Little Rock, Ark.,*	Arch. Decoration.
Girton, Thornton Martin,	*Paw Paw,*	Agriculture.
Glasgow, Grace,	*Tennessee,*	Household Science, Agr.
Glasgow, Ruth,	*Tennessee,*	Household Science, Agr.
Glenn, Grace,	*Champaign,*	Music.
Gloyd, Galen Van Rensselaer,	*Macomb,*	Architecture.
Goldberg, Rose Alice,	*Chicago,*	Music.
Gorham, Margaret Dresser.	*Champaign,*	Art and Design.

Goss, Mary Lucetta,	*Champaign,* General, L. and A.
Goulding, Mrs. Helen Lancaster, Plummer,	*Urbana,* Music.
Grabbe, Florence Harriet,	*Philo,* Household Science, Agr.
Grant, Roger Alpine,	*River Forest,* Agriculture.
Green, Jay,	*Lincoln,* Agriculture.
Green, Roy Ezra,	*Oakwood,* Agriculture.
Gridley, Howard Mitchell,	*Virginia,* Agriculture.
Griffin, Russell Smith,	*Fairfield,* Agriculture.
Gross, Charles Frederick,	*Olney,* Agriculture.
Growden, Arthur Franklin,	*Carbondale,* Agriculture.
Hall, Laura Belle,	*La Moille,* General, L. and A.
Hammer, Albert Benhard,	*Scales Mound,* Agriculture.
Hana, Leo Gregory,	*Champaign,* Medical.
Hand, Mabel Mary,	*Champaign,* Music.
Happer, James Harrison,	*Farmingdale,* Agriculture.
Hardesty, Charles Milton,	*Homer,* Agriculture.
Harris, Charles,	*Moweaqua,* Architectural Eng'g.
Hartshorn, Alfred Bernham,	*Ottawa,* General, L. and A.
Hecox, Elizabeth Belle,	*Sidney,* Music.
Hedges, Guy Otis,	*Colfax,* Agriculture.
Henderson, David Howard,	*Holcomb,* Agriculture.
Hennicks, Harold Hopkins,	*Chicago,* Agriculture.
*Hickey, Joseph Edward,	*Stillman Valley,* Agriculture.
Hill, Ida Myrtle, A.B., 1905,	*Champaign,* Art and Design.
Holmes, Oliver Wendell,	*Lena,* Agriculture.
Holmes, Thomas Hughes,	*Lock Haven, Pa.,* Civil Eng'g.
Holtzman, Wilfred Davis,	*Little Rock, Ark.,* Architecture.
Homs, Eladio,	*Barcelona, Spain,* General, L. and A.
Hope, Herford,	*New Brighton, Pa.,* Ceramics.
Horst, Anton Edward,	*Rock Island,* Mechanical Eng'g.
Horton, Jay Lyman,	*Elmira, N. Y.,* Art and Design.
Hoskins, Ezekiel Edward,	*Norris City,* Agriculture.
Howard, Mary,	*Danville,* Music.
Howell, Fred Washington,	*Homer,* Agriculture.
Hubbart, Edith Pauline,	*Monticello,* General, L. and A.
Huff, James Orton,	*Frederick,* General, L. and A.
Huffaker, Wellington Birther,	*New Berlin,* Agriculture.
Hunt, Edenia,	*Urbana,* Music.

*Deceased.

Hunt, Elmer Lee,	*Henry,*	Agriculture.
Hutson, Seba Ford,	*Benton,*	Business, L. and A.
Hyde, Rosa Kate,	*Champaign,*	Music.
Immel, Raymond Frank,	*South Bend, Ind.,*	Mech. Eng'g.
Ingham, James Donald,	*Shelbyville,*	Agriculture.
Insley, Charles Wilkins,	*Albuquerque, N. Mex.,*	Agriculture.
Irwin, Emory Quinton,	*Pleasant Plains,*	Agriculture.
Jackson, Chester Hull,	*Joy,*	Agriculture.
Jacobson, Herluf Peter,	*Camp Point,*	Agriculture.
Jenkins, George Erastus,	*Delavan,*	Agriculture.
Johnson, Adolph Julius,	*Knoxville,*	Agriculture.
Johnson, Antonia,	*Chicago,*	Household Science, L. and A.
Jones, Cletus,	*Herrin,*	Architectural Eng'g.
Jones, Ebon Clark,	*Bloomington,*	Agriculture.
Jones, George Lawrence,	*Barry,*	Agriculture.
Jones, Nellie Hannah,	*Milford,*	Music.
Jordan, Ralph,	*Fairland,*	Agriculture.
Jutton, Emma Reed, B.L.S., '99,	*Champaign,*	Music.
Karmazin, John,	*Champaign,*	Mechanical Eng'g.
Keefe, William Francis,	*Blossburg, Pa.,*	Civil Eng'g.
Keeler, George Greene,	*Chicago,*	Agriculture.
Kennedy, Clayton Franklin,	*Elgin,*	Civil Eng'g.
Kerley, Claude,	*Timewell,*	Agriculture.
Kincaid, Albert Rex,	*Taylorville,*	Agriculture.
Kinzel, Frank Martin,	*Chicago,*	Civil Eng'g.
Kiplinger, Lloyd Addison,	*Lena,*	General, L. and A.
Kipp, Karl Parker,	*Mineral,*	Agriculture.
Kirby, Mary Arletta,	*Champaign,*	Music.
Kizer, Loren Parker,	*Hammond,*	Mechanical Eng'g.
Koehler, Albert Benjamin,	*Chatsworth,*	Agriculture.
Krieger, Augustus Earl,	*Stonington,*	Agriculture.
Langan, John Joseph,	*Kankakee,*	Agriculture.
Lange, Sophie,	*Champaign,*	Music.
Laubmayer, Benjamin Leroy,	*Odin,*	Agriculture.
Lear, George Bratten,	*Chicago,*	Business, L .and A.
Leonard, John Archibald	*Lake Geneva, Wis.,*	Business, L. and A.
Lewis, Thomas Jefferson,	*Peotone,*	Agriculture.
Lobdell, John Randolph	*Carbondale,*	Agriculture.

Lockwood, Clarence Monroe,	*Stonington,*	Agriculture.
Lui, Ng Hei,	*Canton, China,*	Civil Eng'g.
Lundh, Oscar Andrew,	*Clinton,*	Mechanical Eng'g.
McAdams, William Douglas,	*Alton,*	General, L. and A.
McCaskill Kenneth Alexander,	*Taylorville,*	Agriculture.
McClellan, John Hancock, Ph.D., (*Harvard Univ.* 1906),	*Lexington, Ky.,*	Medical.
McCord, James Drish,	*Vincennes, Ind.,*	Agriculture.
McGray, James Daniel,	*Earlville,*	Agriculture.
McDougle, Charles,	*Charleston,*	Agriculture.
McMinds, Ira Frank,	*Urbana,*	Architectural Eng'g.
McNutt, Ray John,	*Charleston,*	Agriculture.
Madison, Lawrence Chester,	*Quincy,*	Agriculture.
Masley, Jacob,	*Shermanville,*	Agriculture.
Matsuyama, Motoyoshi,	*Kyoto, Japan,*	Agriculture.
Matthews, Leo,	*Champaign,*	Mechanical Eng'g.
Maxwell, Mabel,	*Lawrenceville,*	Music.
Maxwell, Robert Lincoln,	*Arcola,*	Agriculture.
Meherry, Paul Francis,	*Tolono,*	Agriculture.
Meisenhelter, Ray Webster,	*Rosemond,*	Agriculture.
Mershon, Joseph Ingram,	*Mt. Carroll,*	General Science.
Miles, John W,	*Urbana,*	Agriculture.
Millar, William Harrison,	*Shelbyville,*	Agriculture.
Miller, Goldie Mae,	*Champaign,*	Music.
Miller, Logan Charles,	*Mattoon,*	Mechanical Eng'g.
Millholland, Ernest,	*Marion, Ind.,*	Agriculture.
Miner, Paul Irving,	*Adair,*	Agriculture.
Mitchel, Marietta,	*Champaign,*	Music.
Mitchel, Ruth Lacie,	*Champaign,*	Music.
Moberg, Cornelius Frederick,	*Cameron,*	Agriculture.
Mohr, Herman,	*Chicago,*	Arch. Decoration.
Montgomery, Harriet Eleanor,	*Quincy,*	Household Science, Agr.
Montegel, James Ralph,	*Chicago,*	Architecture.
Moorehead, Frank Forest,	*Seibert, Colo.,*	Architecture.
Morrison, Homer Frederick, Jr.,	*Ramsey,*	Agriculture.
Morrow, Hugh D,	*Indianapolis, Ind.,*	Architecture.
Moss, Mary Frances, A.B., 1905,	*Urbana,*	Music.
Moss, Royal Ross,	*Morris,*	Business, L. and A.
Murphey, Fay Blanche,	*Champaign,*	Music.
Murphy, John Delbert,	*Odell,*	Agriculture.
Murphy, William Emmet,	*Odell,*	Agriculture.

Murray, Marselle,	*Hoopeston,*	Music.
Nation, Maggi Eloise,	*Chebanse,*	Household Science, L. and A.
Negley, Laurel Angle,	*Cuba,*	Agriculture.
Nelson, Floyd,	*DeKalb,*	Agriculture.
Nicholson, James Calvin,	*Urbana,*	General, L. and A.
Nightingale, Mrs. Minnie Louise,	*Urbana,*	Music.
Nordwall, Samuel Victor,	*St. Augustine,*	Agriculture.
Norfolk, Harold,	*Charleston,*	Agriculture.
Nourse, Fred Melvin,	*Maywood,*	Electrical Eng'g.
*Oakes, William Bryson,	*Laura,*	Agriculture.
Oldham, Clyde Carleton,	*Urbana,*	Agriculture.
O'Neal, John Russell,	*Kankakee,*	Business, L. and A.
Orr, Robert Hall,	*Watsonville, Cal.,*	Architecture.
Pallissard, Edward John Jr.,	*St. Anne,*	Agriculture.
Parsons, Gwinthelean Estelle,	*Chicago,*	Music.
Parsons, Margaret May,	*Homer,*	Music.
Peasley, John Hunt,	*Stronghurst,*	Agriculture.
Perkins, William Edwin,	*South Bend, Ind.,*	Mechanical Eng'g.
Peterson, Harry Haines,	*Kirkpatrick, Ind.,*	Agriculture.
*Phelps, Louis Lyman,	*Ladd,*	Agriculture.
Phipps, Charles Rush,	*Charleston,*	Agriculture.
Poorman, Paul Wamsley,	*Humboldt,*	Agriculture.
Porter, Albert Renfrew,	*Chicago,*	Agriculture.
Potter, John William	*Champaign,*	Agriculture.
Pratt, Lucian Savillan,	*Avon,*	Agriculture.
Quayle, Wilfred Russell,	*Chicago,*	Agriculture.
Rankin, William Jacob Royal,	*White Heath,*	Agriculture.
Record, Charles Edward,	*Farmington,*	Agriculture.
Reed, Alice Elizabeth,	*Urbana,*	General, L. and A.
Reed, Charles Franklin,	*Sterling,*	Agriculture.
Reed, Frank Walker,	*Urbana,*	Music.
Reed, James Boone,	*Kirkwood,*	Agriculture.
Reed, Lois Antoinette,	*Rochester, N. Y.,*	General, L. and A.
Reeves, Charles Fowler,	*Chicago,*	Mechanical Eng'g.
Rehtmeyer, Curtis Adolph,	*Chicago,*	Agriculture.
Reid, Ethel Irene,	*Great Falls, Mont.,*	Business, L. and A.

*Deceased.

Rein, Fritz,	*Gilman,*	Agriculture
Renfrew, Clara Eva,	*Urbana,*	Music.
Rhodes, John Edwin, Jr.,	*Chicago,*	Agriculture.
Rice, Ernest Austin,	*Bone Gap,*	Agriculture.
Riegel, William Elias,	*Galatia,*	Agriculture.
Rigg, Clinton Benjamin,	*Mt. Sterling,*	Agriculture.
Riggs, Ray Vere,	*Jerseyville,*	Agriculture.
Robinson, Carroll Reuben,	*Prentice,*	Agriculture.
Robison, Glen Rupert,	*Hamilton,*	Agriculture.
Rohrer, Carl James,	*Canton,*	Agriculture.
Rolfe, Mary Annette, AB., 1902,	*Champaign,*	Art and Design.
Rolfe, Susie Farley, A.B., '03,	*Champaign,*	Music.
Rose, Edward,	*Mattoon,*	Agriculture.
Rucker, Melvin Barnett,	*Decatur,*	Agriculture.
Rundles, Don Cameron,	*Champaign,*	Agriculture.
Rundles, Guy,	*Huntertown, Ind.,*	General, L. and A.
Russell, Robert Avery,	*LaPorte, Ind.,*	Agriculture.
Rutan, Roscoe Chambers,	*Chicago,*	Agriculture.
Ryan, Joseph Patrick,	*Chicago,*	Chemistry.
Ryan, William E,	*Delavan,*	Agriculture.
Samson, Inez Rose,	*Urbana,*	Music.
Sandberg, Reuben Lawrence,	*Chicago,*	Civil Eng'g.
Sanvictores, Jose Gorgonio,	*Pasig, Rizal, P. I.,*	Agriculture.
Savage, Tom Stribling,	*Ashland,*	Agriculture.
Saxton, Eva Iola,	*Prescott, Wash.,*	Music.
Schoemann, Jesse Henry,	*Carmi,*	Business, L. and A.
Schumacher, George Christopher,	*LaRue,*	Agriculture.
Searcy, William Endimon,	*Carlinville,*	Agriculture.
Sequin, Edgar James,	*St. Anne,*	Agriculture.
Seibert, Erwin William,	*Belleville,*	Agriculture.
Selle, Emma M K,	*Chicago,*	General, L. and A.
Shapland, George Thomas,	*Saunemin,*	Electrical Eng'g.
Shearer, Andrew Willis,	*Henry,*	Agriculture.
Shotts, Florence Dunlap,	*Seymour,*	Music.
Shupe, Chester Benton,	*Baloma,*	Agriculture.
Smith, Howard Allen,	*Urbana,*	Agriculture.
Smith, Helen Amelia,	*Sidney,*	Music.
Smith, Ira Wilder,	*Kankakee,*	Agriculture.
Smith, Lawrence,	*Alexis,*	Agriculture.
Smittkamp, Chester Arthur,	*Paris,*	Agriculture.

Snyder, Logan Abraham,	*Kankakee,*	Agriculture.
Souther, Frank Trowbridge,	*Chicago,*	Agriculture.
Spaid, Joseph Merl,	*Heyworth,*	Civil Eng'g.
Stabler, James William,	*Neponset,*	Agriculture.
Stark, Grace Florence,	*Thomson,*	General, L. and A.
Stebbins, Joel, Ph.D., (*Univ. of Cal.*), 1903,	*Urbana,*	Music.
Stephensen, Oddgier,	*Urbana,*	Electrical Eng'g.
Sterchi, Anna M,	*Olney,*	Music.
Stine, Clarence Jefferson,	*Edelstine,*	Agriculture.
Stookey, Sherman Columbus,	*Belvidere,*	Agriculture.
Strawn, Virginia,	*Albion,*	General, L. and A.
Stroud, Earl Adams,	*Maroa,*	Mechanical Eng'g.
Sturgeon, Alfred Haig,	*LaGrange,*	Agriculture.
Swan, Grace Vernelle,	*Waynesville,*	Music.
Swanson, Sven Gustav,	*Potomac,*	Agriculture.
Swearingen, William Roy,	*Paris, Ky.,*	Civil Eng'g.
Swingle, Earl Houghton,	*Athens,*	Agriculture.
Taddey, Alfred Carl,	*Milwaukee, Wis.,*	Architectural Eng'g.
Tanner, Harry W,	*Aurora,*	Agriculture.
Tanquary, Elmer Shrader,	*Champaign,*	Music.
Taylor, Harriet Agnes,	*Osaka, Japan,*	General, L. and A.
Taylor, William Lincoln,	*Lancaster, Wis.,*	Agriculture.
Teague, Clyston Mosse,	*New York, N. Y.,*	Agriculture.
Teel, Charles Henry,	*Rushville,*	Agriculture.
Teesdale, Hugh Thomas,	*Pontoosuc,*	Agriculture.
Terhume, Robert Edgar,	*Petersburg,*	Agriculture.
Tewes, Francis Xavier,	*St. Paul, Minn.,*	Architecture.
Thal, Otto Samuel,	*Champaign,*	General, L. and A.
Thomas, Melvin,	*Charleston,*	Agriculture.
Thompson, Mrs. Beatrice Hazel,	*Urbana,*	Music.
Thompson, Charles Manford,	*Greenup,*	General, L. and A.
Thomson, Mrs. Presson Waverly, A.B., (*Knox Coll.*), 1902.	*Urbana,*	Music.
Thoren, Joseph Nathaniel,	*Lockport,*	Civil Eng'g.
Throne, Edna Hazel,	*Chicago,*	Household Science, Agr.
Toben, John Harm,	*Melvin,*	Agriculture.
Toomey, Mrs. Annie Belle,	*Nashville, Tenn.,*	Music.
Trotter, William John,	*Coal City,*	Agriculture.
Unnewehr, George Louis,	*New Point, Ind.,*	Music.

Vanneman, Grace Sadonia,	*Urbana,*	Music.
Watkins, William Wynne,	*Chicago,*	Agriculture.
Watson, George Edward,	*Forrest,*	Agriculture.
Watts, Samuel Edward,	*Chicago,*	Agriculture.
Way, Hermien Clare,	*Champaign,*	General, L. and A.
Wellman, Emma Catherine,	*Champaign,*	Music.
Whitchurch, John Ezra,	*Salem,*	Agriculture.
White, James Earl,	*Morrisonville,*	Agriculture.
Whiting, Morse Claude,	*Altona,*	Electrical Eng'g.
Wiekert, Ricus,	*Emden,*	Agriculture.
Willoughby, Thomas Fletcher,	*Madison, Wis.,*	Agriculture.
Wilson, Ben J,	*Chicago,*	Civil Eng'g.
Wilson, Louis Dale,	*Woodstock,*	Agriculture.
Winter, Robert Lowell,	*Charleston,*	Agriculture.
Wolfe, Gertrude Veronica,	*Streator,*	Household Science, Agr.
Womack, Peter Clay,	*Champaign,*	Agriculture.
Woodrow, Richard Lewis,	*Green Valley,*	Agriculture.
Wright, George Ellory,	*Streator,*	Architecture.
Yoke, John Jonathan,	*Acton, Ind.,*	Agriculture.
Zillmer, Frank Gottfried,	*Chicago,*	Mechanical Eng'g.
Zimmerman, Irla,	*Chicago,*	Art and Design.

SUMMER SESSION

Ackemann, Henry Conrad,	*Elgin.*
Adams, Edwin Bert,	*Steger.*
Agana, Benardo,	*Tarlac, P. I.*
Aguirre, Matias,	*Manclova, Coahuila, Mex.*
Akers, Milton Kent,	*Homer.*
Allen, Frank Phoenix,	*New Windsor.*
Allison, Lorena Adella,	*Chicago.*
Almy, Lloyd Huber,	*Sterling.*
Alsbury, Mary Elizabeth,	*Maroa.*
Anthony, Charles Henry,	*Greenville.*
Apostol, Silverio,	*Iba Zambales, P. I.*
Applegate, Annie Mary,	*Atlanta.*
Archibald, Charity,	*Freeburg.*
Archibald, Myrtle Rebecca,	*Freeburg.*
Argüelles, Angel Severo,	*Batangas, P. I.*
Averill, William Armitage, A.B., (*Univ. of Chicago*), 1902,	*Champaign.*

Bach, Irwin Woodward,	*Urbana.*
Baird, Mrs. Bertha Salsich,	*Cincinnati, O.*
Ballard, Sanford Elmer,	*Marissa.*
Barnes, Hubert Otis,	*Springfield.*
Barnhart, Edna Pearl,	*Urbana.*
Barnhart, Miles Goodwin,	*Flanagan.*
Barrett, Claudia Mae,	*Princeville.*
Barto, Phillip Stephen,	*Momence.*
Barton, Raymond Leonard,	*Worthington, Ind.*
Bashen, George Bergen,	*Bowen.*
Bassett, Herbert, B.S., 1902.	*Yorkville.*
Bauer, Frederick Charles,	*Blue Mound.*
Baum, Mark Winchester,	*Champaign.*
Beck, Frederick,	*Harvey.*
Beecher, Howard Benjamin,	*Peoria.*
Benefiel, Eva Marion,	*Mattoon.*
Benkert, Ambrose William,	*Marion.*
Bennett, Stella, B.L.S., 1903,	*Belvidere.*
Bentz, George William,	*Chicago.*
Berolzheimer, Teresa Ruth,	*Chicago Heights.*
Bernreuter, Walter,	*Mt. Olive.*
Bevis, Albon,	*Urbana.*
Biggs, Elias Dutten,	*W. Lebanon, Ind.*
Blair, Josephine Lyons,	*Piper City.*
Bland, Rose,	*Normal.*
Booth, Archie Anderson,	*Camp Point.*
Booth, Walter Stewart,	*Mt. Carmel.*
Booz, Archie Charles,	*Roseville.*
Boren, Welzie E,	*Haubstadt, Ind.*
Bost, Ernest Leslie,	*Greenville.*
Bowlin, William Roy,	*Princeville.*
Bowyer, Lewis Herbert,	*Bement.*
Bracker, Emil Mark Diedrich,	*Hillsdale.*
Braucher, Herbert Hill, B.S., 1894.	*Lincoln.*
Breining, Wilhelmine Anna,	*Peru.*
Brewster, Walter Herbert,	*Bradley.*
Brothers, Clark Arthur,	*Hampshire.*
Brougham, Maude Victoria,	*Sault Ste. Marie, Mich.*
Brown, Edward Frederick,	*Chicago.*
Brown, Frank Earl,	*Chicago.*

Buck, Leonard, *Vermont.*
Buellesfield, Henry, A.B., 1906, *LaSalle.*
Buenger, Louis, *Edwardsville.*
Buerkin, Edwin George Charles, *Quincy.*
Burgener, Claude Emanuel, *Moweaqua.*
Burt, John Little, *Chicago.*
Busey, Carolyn Elizabeth, *Urbana.*
Busey, Marietta Ruth, A.B., (*Vassar Coll.*), 1899, *Urbana.*
Bushnell, Ethel May, *Urbana.*
Butler, Beatrice Martindale, *Urbana.*
Butler, Charles Corydon, *Raritan.*
Butler, Mrs. Ruby Jane, *Princeville.*
Butzer, Clarence David, *Hillsdale.*
Calvert, Cecil Kirk, *Champaign.*
Campbell, James S, *Marion.*
Campbell, Ralph Lee, *Peoria.*
Campbell, Winifred Thompson, *Albion.*
Canty, Viola Gertrude, *Chicago.*
Carpenter, Ethel Elizabeth, *Danville.*
Carpenter, Lewis Moffitt, *Peoria.*
Case, Flora Margaret, *Dunlap.*
Cass, Sherman, *Cerro Gordo.*
Center, Orlo Dorr, B.S., 1905, *Champaign.*
Chamberlain, Lucius Orville, *Champaign.*
Chase, Lottridge Eaton, *Leroy.*
Chester, Ann, *Hartsburg.*
Clark, John M, *Pittsfield.*
Clark, Vinton Albert, M.S., (*Univ. of Vt.*), 1904, *Champaign.*
Clinite, Raymond Grover, *Cherry Valley.*
Collins, Edra Louise, *Urbana.*
Condit, Charles, *St. Joseph.*
Condit, Roy Willoughby, *Urbana.*
Conley, Charles Clarence, *Rockford.*
Connard, May, *Decatur.*
Cook, Sylvester Irving, *Rantoul.*
Copeland, Harry Atwood, *Abingdon.*
Coronel, Peter Larate, *Washington, D. C.*
Cox, Loyd Franklin, *New Burnside.*
Cox, Nellie Theresa, *Urbana.*

Craig, George Herbert,	*Elwood.*
Craig, John Henry,	*Lewistown.*
Crain, Mrs. Mary,	*Urbana.*
Crawford, Mayme Blair,	*Urbana.*
Cristy, Harold E,	*St. Joe, Ark.*
Crossland, George Marshall, A.B., 1901,	*Sheldon.*
Cruz, Adrino Talbos,	*Hagonoy, Bulacan, P. I.*
Dague, Bess,	*Danville.*
Dallam, Clara Hill,	*Warsaw.*
Datu, Mauro M,	*S. Fernando, Pampanga, P. I.*
David, Samuel Garnett,	*Onarga.*
Davis, Marietta Syrl,	*Straight Creek, Kan.*
Davis, Wilmer Esla,	*Urbana.*
Davison, Margaret,	*Monticello.*
Deal, Hiram Linus,	*Taylorville.*
Dean, Jessie Luella,	*Carthage.*
Demmer, John Edward,	*Pinckneyville.*
Denning, Bertha,	*Normal.*
DeVoss, Frank, Jr.,	*Cameron.*
Dewey, Louise Sarah, M.S., 1899,	*Urbana.*
Diaz, Waldemar Ramon,	*Ranchos, Buenos Ayres.*
Dicke, Otto Arthur,	*St. Louis, Mo.*
Dobbins, John Alexander,	*Pleasant Plains*
Dodson, Frank,	*Armstrong.*
Dodson, Mrs. Olive Myrtle,	*Armstrong.*
Dolan, William John,	*Urbana.*
Donaldson, Elizabeth Francis,	*Urbana.*
Drake, Pauline Hortense,	*Urbana.*
Eagelston, Elizabeth E,	*Bradford.*
Earnest, William Watson,	*Bushnell.*
Eccles, William Edmund,	*Staunton.*
Edmunds, Henry Hugh,	*Clinton.*
Eggleston, Adeline,	*Urbana.*
Eggleston, Hariet Myrtle,	*Urbana.*
Ehrgott, Grover Cleveland,	*Quincy.*
Ekblaw, Walter Elmer,	*Rantoul.*
Elicano, Victoriano,	*Masinlac, Zambales, P. I.*
Endsley, Frederick LeRoy,	*Milford.*
Engelhart, John Hanley August,	*Champaign.*

English, Edith Mary, *Carlock.*
Eno, Sarah Wooster, *Charlotte, Vt.*
Eoff, Earl, *Greenup.*
Ernest, Thomas Reuben, A.B., 1907, *Swanwick.*
Espinosa, Miguel Elenes, *Topia, Mexico.*
Espriu, Rafael, *Mexico City, Mexico.*
Ewing, Harriet Grace, *St. Joseph, Mo.*
Fast, Emmett Emerson, *Princeville.*
Ferguson, Jean May, *Pekin.*
Ferris, Elizabeth, *Homer.*
Finn, Samuel Norris, *Cartter.*
Fletcher, Mabel Elizabeth, *Decatur.*
Forbes, Ethel Clara Schumann, A.B., 1903, *Urbana.*
Formoso, Arsenio Sebastian, *Santa Maria, Ilocos, Sur, P. I.*
Foster, Joseph Kyle, *Mt. Carroll.*
Fox, Gertrude Grace, *Danville.*
Froelich, John Daniel William, *Chicago.*
Furrow, Elmer Otis, *Potomac.*
Gallaher, Thomas Andrew, *Homer.*
Garlough, Carlton, D, A.M., (*Hillsdale Coll.*), 1900, *Brookston, Ind.*
Garza, Juan J, *Saltillo, Mexico.*
Gates, Orus Ethan, *Tuscola.*
Gault, Cora Lola, *Grass Creek, Ind.*
Genther, Otto Carl, *Mokena.*
Gibbs, Clark Lee, *Ewing.*
Gilmore, Mrs. Emma, *Hillsboro.*
Girhard, Charles Edward, *Newton.*
Glenn, John Albert, *Monmouth.*
Goff, Mary Emma, A.B., 1902, *Rantoul.*
Goodenough, Athur Sherman, *Urbana.*
Graham, Charles Wallace, *Springfield.*
Grandy, Charles William, *Gurnee.*
Grannis, Frank Cravens, *Urbana.*
Green, Bessie Rose, A.B., 1907, *Ivesdale.*
Green, Georgana, *Paris.*
Greene, Birdie Wilmah, *Tallula.*
Greene, James Henry, *Dubuque, Ia.*
Griffin, Dwight, *Clinton.*

Griffith, Mabel Frances,	*Rankin.*
Griffith, Thomas Leo,	*Windsor.*
Grimm, Emma Minnie,	*Quincy.*
Grosh, Elizabeth Phyllis,	*Loraine.*
Groves, Mabel,	*Momence.*
Guerrero, Angel Cuesta,	*Havag Ilocos, Norte, P. I.*
Gutierrez, Perpetuo Dionisio,	*Flondablanca, Pampanga, P. I.*
Gwin, Thomas Day,	*Clyde.*
Gwinn, Avis,	*Urbana.*
Haddock, Frank Dickinson, A.B., (*Olivet Coll.*), 1900,	*Champaign.*
Hagen, Henry Hiram,	*Steward.*
Haines, Arthur Carleton,	*Chicago.*
Hall, Edward Leverich,	*Danville.*
Hall, Ward Everett,	*Monmouth.*
Hana, Leo Gregory,	*Champaign.*
Hanson, Herman Ludwig,	*Paxton.*
Harbert, Hazel Gertrude,	*Hoopeston.*
Harmon, Charles Frederic,	*Walsh.*
Harnist, Carl Willhelm,	*Edwardsville.*
Harris, Charles,	*Moweaqua.*
Harrison, Bruce Magill,	*Ottawa, Kan.*
Harshbarger, Lulu Belle,	*Galesburg.*
Hart, John Franklin,	*Quincy.*
Harwood, Frank David,	*Flora.*
Hatch, Edith Hodgen,	*Champaign.*
Hatcher, Charles Kenneth,	*Quincy.*
Hauser, Albert,	*Mexico City.*
Hawbaker, Eliphalet Henry,	*Ames, Ia.*
Hawkes, William,	*Minonk.*
Haynes, George Edwin,	*Siloam Springs, Ark.*
Hedgcock, William Everett,	*Plymouth.*
Heislar, Clarence Schuch,	*Champaign.*
Helfrich, Ida Josephine,	*Carthage.*
Hellmann, Carl August, B.S., 1906,	*Homer.*
Hemphill, Joseph Clyde,	*Paris.*
Henderson, Alice Apalona,	*Galesburg.*
Henderson, Elmer J,	*Leland.*
Henderson, Wilson Hogan,	*Springfield.*

Henicksman, Idah A,	*Dana.*
Henning, August Edward,	*Watseka.*
Henry, Theodore Spafford,	*Abingdon.*
Hesse, Lawrence Jere,	*Evanston.*
Hesselbaum, Caroline Elizabeth,	*Aurora.*
Highfill, Inez Feltz,	*Urbana.*
Hill, Carrie Marsh,	*Chicago.*
Hill, Fanny Wilder,	*Champaign.*
Hill, Nathan Richard,	*Champaign.*
Hoagland, Henry Elmer,	*Prairie City.*
Hobbs, Horace Gaylord,	*Pontiac.*
Hoff, Lucy Virginia,	*Chicago Heights.*
Holt, Sidney Viel,	*Oneida.*
Hough, Estella Daisy,	*Belleville.*
Howard, Hester Rachael,	*Villa Grove.*
Howe, Mary,	*Chicago.*
Howell, Ethel English,	*Arcola.*
Hubbart, Oliver Sherman,	*Monticello.*
Huff, James Orton,	*Frederick.*
Huffman, Eva Ellen,	*Charleston.*
Hughey, Leta,	*Decatur.*
Hull, Walker Francis,	*Martinsville.*
Hummel, Adam Albert, B.S., 1907,	*Urbana.*
Hummel, William Grandville, B.S., 1907,	*Urbana.*
Hunsaker, Andrew Franklin,	*Cobden.*
Hunt, Agnes,	*Ridott.*
Hunter, Anne S,	*Rockford.*
Hutchinson, Ethel,	*Urbana.*
Hutson, Seba Ford,	*Benton.*
Hutson, Stella Evangeline,	*Benton.*
Inness, Dorothy May,	*Galesburg.*
Jacobsen, Eda Augusta,	*Urbana.*
James, Helen Dickson,	*Urbana.*
James, Herman Gerlach, A.B., 1906,	*Urbana.*
James, McNeal Cole,	*Ancona.*
Jensen, George Leonard,	*Chicago.*
Johnson, Ananias Parnell,	*Rantoul.*
Johnson, Roy Grant,	*Decatur.*
Johnston, Elizabeth Jane,	*Illiopolis.*
Jones, Ella Frances,	*Fairbury.*

Jones, John Lloyd,	*Bradford.*
Jones, Walter Raymond,	*Redmon.*
Jordan, Oscar Joseph,	*Chicago.*
Kautz, Will Waddell,	*Moweaqua.*
Kealey, Phillip Joseph,	*Chicago.*
Kell, Sherman Little,	*Kell.*
Kelley, Grace Osgood, B.L.S., 1903,	*Muskegon, Mich.*
Kennan, Charles Marshall,	*Maysville, Ky.*
Keough, Emmett,	*Bath.*
Kerker, Verna,	*Urbana.*
Kessler, Harvey Lamech,	*Chatsworth.*
Kessler, Minnie Fryar,	*Chatsworth.*
Keys, Louesa,	*Normal.*
Kibby, Sarah Elvira,	*Bertland, Colo.*
Kiger, Oscar Newton,	*Mansfield.*
Kile, Katherine Louise,	*Mason City.*
Kimble, Tone Theodore,	*Kaneville.*
Kindig, Pearl,	*Secor.*
Kingsbury, Howard Baker,	*Gardner.*
Kingsbury, Mrs. Stella Edith,	*Crystal Lake.*
Kinzel, Frank Martin,	*Mattoon.*
Kirk, Donald Dee,	*Carbondale.*
Kirk, Elizabeth,	*Decatur.*
Kirk, Josephine,	*Decatur.*
Kirk, James Thornton,	*Neponset.*
Kissinger, Gladys Lillian,	*Bradford.*
Kizer, Loren Parker,	*Hammond.*
Klewer, Arthur Leonard,	*Chicago.*
Klotz, Vera Hall,	*Peoria.*
Koch, Flora Maria,	*Jacksonville.*
Krueger, Valeria Wilhelmina,	*Nauvoo.*
Lagniton, Isabelo,	*E. Lopez, Jaro, Iloilo.*
Larracas, Fidel Videl,	*Boac, Marinduque, P. I.*
Larson, Martha Serma,	*Morris.*
Lawless, Joseph Conrad,	*Bowen.*
Lawless, Julia Anna,	*Paloma.*
Leach, Robert Whittaker,	*Rogers Park, Chicago.*
Lebegue, Julius Victor,	*Oglesby.*
Licup, Roman,	*Angeles, P. I.*
Liggett, Frederick Manley,	*Hamburg, Ia.*
Lillard, Paul,	*Bloomington.*

Littler, Nellie M,	*Danville.*
Littler, Sherman Henry,	*Potomac.*
Lockett, Lela,	*Clinton.*
Lodge, Fred Sterling,	*Monticello.*
Logan, Grace Belle,	*Edinburg.*
Long, Joseph Ayres,	*Amboy.*
Lowry, Sarah Edith,	*Upper Alton.*
Luckhauft, Fannie May,	*Marshall.*
Lully, Rose L,	*Louisville, Ky.*
Lyle, Albert Francis,	*Arcola.*
Lynch, Ralph Atkinson,	*Peoria.*
Mabin, Isabel,	*Danville.*
McBee, Rose,	*Sidney.*
McClenehan, William Thompson,	*Monmouth.*
McClurg, Lola DeWitt,	*Urbana.*
McCord, Ralph Nichols,	*Bloomington.*
McCoy, Mary,	*Urbana.*
McDaniel, Fannie,	*Champaign.*
McDaniel, Lillie,	*Champaign.*
McDonald, Alice Birdie,	*Charleston.*
McDowell, Samuel Kline,	*LeRoy.*
McElvaine, Edith,	*Bushnell.*
McGrew, Mrs. Hattie Marston,	*Hoopeston.*
McGrew, Leroy,	*Altoona.*
McKean, Leonard Albert,	*Woodson.*
McKinney, Henry Theodore,	*Herrin.*
McManus, James Bernard,	*LaSalle.*
Maher, Lillian Elizabeth,	*Champaign.*
Majunder, Santosh Chandra,	*Bolepur, Bengal, India.*
Mamer, Mary,	*Odell.*
Mansell, Lyman Beecher,	*Farmington.*
Mansell, Mrs. Lyman Beecher,	*Farmington.*
Mansfield, Warren Moore,	*Woodhull.*
Marsden, Roger Dearborn,	*St. Charles.*
Marsh, Mabel,	*Kincaid, Kan.*
Marshall, Bernice Henrietta,	*Assumption.*
Marshall, Elsie Estelle,	*Abingdon.*
Martin, Luta,	*Oakland.*
Martin, Oscar Ross,	*Granite City.*
Martin, Thomas Adams,	*Commercial Point, O.*
Martinez, Rufus Jallorina,	*Iloilo, Panay, P. I.*

Matheny, Arthur Rolla,	*Elizabethtown.*
Mathis, Victor Alvin,	*Champaign.*
May, Anna Estelle,	*Chrisman.*
Meeks, Ida Vernicia,	*Danville.*
Meeks, Mrs. Frances Pearson,	*Danville.*
Merrill, Amos Newlove,	*Logan, Utah.*
Miller, Clarence Bonnell,	*Boswell, Ind.*
Miller, Roscoe Barrickman,	*Jeffersonville.*
Millican, Harold Alexander, A.B., (*Greenville Coll.*), 1906,	*Spring Arbor, Mich.*
Minor, William,	*Mt. Vernon.*
Misener, Lena Esther,	*Monmouth.*
Moeller, Helen Susan,	*Waterloo.*
Montooth, Charles Stuart, A.B., 1905,	*Toulon.*
Moore, Ellsworth,	*Augusta.*
Moore, Genevieve,	*Urbana.*
Moore, James Gregory,	*Quincy.*
Moore, Nellie Anna,	*Pittsfield.*
Morris, Minnie E,	*Carlyle.*
Morrow, Jessie Eleaine, B. S., (*Okla. Agr'l and Mech. Coll.*), 1903,	*Stillwater, Okla.*
Mullen, Cyril J,	*Buenos Ayres, Arg.*
Mull, Mrs. Beth Warner,	*Emporia, Kan.*
Nash, Charles Anson,	*Elizabeth.*
Newcomb, Jessie Ruth,	*Champaign.*
Nichol, Marion,	*Urbana.*
Nicholsen, Margaret,	*Gibson City.*
Nicholson, James Calvin,	*Litchfield.*
Niles, Ella Gardiner,	*Tuscola.*
Nuckolls, Mary Elizabeth,	*Urbana.*
Nuttall, John Tilden,	*Paxton.*
Oathout, Mabel Edna,	*Cissna Park.*
O'Byrne, Katie Jeannette,	*Champaign.*
Olmsted, George Channey,	*Chattanooga, Tenn.*
Orgill, Sabina Ruth,	*Jeanette, Pa.*
Orosa, Vicente,	*Bauan, Batangas, P. I.*
Orr, Robert Hall,	*Watsonville, Cal.*
Orr, Mrs. Robert Hall,	*Watsonville, Cal.*
Palmer, George Merit,	*Milaca, Minn.*
Palomares, Rudolph Siantigo,	*Mexico City, Mexico.*
Patdu, Ildefonso,	*Manila, P. I.*

Paul, Mary Josephine,	*Jerseyville.*
Pemberton, Bessie Belle,	*Galatia.*
Penter, Eli Everett,	*Champaign.*
Perez, Carlos Santiago,	*Saltillo, Mexico.*
Perkins, Reba,	*Champaign.*
Perrin, Harry Ambrose,	*Pawnee.*
Persinger, Elizabeth,	*Bushnell.*
Pettit, George Marion,	*Peshtigo, Wis.*
Pippit, Aden G,	*Champaign.*
Plunkett, Ortha Logan,	*Palestine.*
Postlewait, Harriet Leotine,	*Philo.*
Powers, Mark Elmer,	*Champaign.*
Powers, Michael,	*Mackinaw.*
Pugh, Ada Roberta,	*Champaign.*
Raibourne, James Edward,	*Champaign.*
Ramoso, Armesto,	*San Isidro, P. I.*
Ramsey, Carrie,	*Danville.*
Ray, Arthur E,	*Rockford.*
Reed, Alice,	*Urbana.*
Reeder, John Corwin,	*Hoopeston.*
Reeves, Harry Payne,	*Carmi.*
Renfrew, Carlos Dickson,	*Urbana.*
Retz, Rosalie Mary,	*Ottawa.*
Richardson, Ross,	*Toledo.*
Ricketts, Clara Agnes,	*Champaign.*
Rivera, Jose, Jr.,	*Paysanhan, Laguna, P. I.*
Rivera, Luis,	*Paysanhan, Laguna, P. I.*
Robbins, Frank Anson,	*Orient, S. Dak.*
Roberts, Kathleen Alice,	*Champaign.*
Rohrer, Minnie Genevieve,	*Somonauk.*
Romig, Frank G,	*Coffeyville, Kan.*
Rose, Webster Barclay,	*Gays.*
Rose, Wilber Wilford,	*Windsor.*
Roth, Jay Frederick,	*Henry.*
Rourke, Ellen Mary,	*Springfield.*
Rudin, Oliver Wendell,	*Trinidad, B. W. I.*
Rundles, Don Cameron,	*Ft. Wayne, Ind.*
Runkel, Homer,	*Greenup.*
Rutherford, Cecil Ebert,	*Girard.*
Sandifur, Claude Williamson, A.B., (*Indiana Univ.*), 1906,	*Ransom.*

Sanvictores, Jose Gorgonio,	*Pasig Rigal, P. I.*
Sargent, Agnes Lucy,	*Mathuen, Mass.*
Sato, Toshio,	*Higasiku, Osaka, Japan.*
Schmidt, Henry Galen,	*Belleville.*
Scholz, Hannah May,	*Lake Zurich.*
Scott, John Lee,	*Springfield.*
Seeley, Esther Beulah,	*Normal.*
Seiler, Justin Frank,	*Washington, D. C.*
Shackell, Bessie Estelle,	*Urbana.*
Shannon, Agnes Nancy,	*Freeport.*
Shelton, Francis Ronald,	*Grayville.*
Sheridan, Julia Marian,	*Chicago.*
Sheriff, Ralph Edwin,	*Reynolds.*
Shoop, Adeline Ada,	*Abingdon.*
Shortridge, William Franklin,	*Dearborn, Mo.*
Sick, Elizabeth Kathryn,	*Geneva.*
Sim, Keturah Elizabeth, B.L., 1884,	*Urbana.*
Simmons, Jessie Josephine,	*Carthage.*
Simms, Fred Shepard,	*Traverse City, Mich.*
Simpson, Frank,	*Pana.*
Simpson, Orman Manard,	*Williamsburg, Ky.*
Sinclair, Clara,	*Ashland.*
Sinnett, Thomas Patrick,	*Crescent City.*
Sinnock, Pomeroy,	*Chicago.*
Slaymaker, Charles Monroe,	*Albany.*
Smith, Irwin Webster,	*Urbana.*
Smith, Leslie Alden,	*Champaign.*
Smith, Marion,	*Danville.*
Smith, Paul McCorkle,	*Normal.*
Smith, Rose,	*Gibson City.*
Smith, Sylvia Edna,	*Midland City.*
Snider, Earl Quinter, A.B., 1906,	*Cerro Gordo.*
Sopp, Louise Katherine,	*Belleville.*
Sparks, Mrs. Myrtle Eva, A.M., 1890,	*Ottawa.*
Spencer, Charles Blakely,	*Champaign.*
Spencer, Edwin Rollin,	*Rushville.*
Stedman, Jeannette,	*Champaign.*
Stice, Henry Sylvester,	*Litchfield.*
Stifler, William Warren, A.B. (*Shurtleff Coll.*), 1902,	*Upper Alton.*
Stipp, Daniel Webster Voorhees,	*Danville.*

Stolty, Jennie,	*Champaign.*
Stone, Edison Harris,	*Quincy.*
Stone, Jessie,	*Pekin.*
Strehlow, Cornelia Emma, A.B., 1903	*Shermerville.*
Strowd, Earl Adams,	*Maroa.*
Strobridge, Thomas Ralph,	*Rockford.*
Sumay, Felix Jose,	*Chascomus Argentina.*
Sumay, Oscar Jose,	*Chascomus Argentina.*
Summers, Mrs. Mary,	*Homer.*
Sundt, Joseph Marvin,	*E. Las Vegas, N. Mex.*
Swett, William Claude,	*Almora.*
Swezey, Anne Davies, B.L.S., 1903,	*Urbana.*
Swift, Elizabeth Andrews,	*Champaign.*
Swing, Lillian May,	*Mason City.*
Swisher, Jacob Armstrong,	*Wellington.*
Tagore, Rathindra Nath,	*Balpore, India.*
Tarrant, Floyd Hillabrant,	*Champaign.*
Taylor, Alice,	*Champaign.*
Taylor, Elsie Mae, A.B., 1904,	*Champaign.*
Taylor, George Alexander,	*St. Louis, Mo.*
Taylor, Gouverneur Warren,	*Springfield.*
Taylor, Margaret,	*Chicago.*
Taylor, Roy Elmer,	*Normal.*
Taylor, Stanley George,	*Bloomington.*
Teague, Clyston Mosse,	*New York, N. Y.*
Terrill, Edward Dillon,	*Olive Branch, Miss.*
Thal, Otto Samuel,	*Champaign.*
Thomas, Edgar Conrad,	*Yorkville.*
Thompson, Charles Manfred,	*Fairfield.*
Thompson, Francis,	*Pinckneyville.*
Thompson, George Brooks,	*Wheaton.*
Thompson, Milton Winfield,	*Ogden.*
Thrasher, Marvin Allen,	*Kinmundy.*
Thurber, Alberta Maud,	*Yorkville.*
Tilton, Nellie E,	*Champaign.*
Tilton, Olive Sophia,	*Danville.*
Toland, Jessie May,	*Urbana.*
Tower, Willis Eugene, B.S., 1894,	*Chana.*
Trainor, Roscoe John Chauncey,	*Chicago.*
Triebner, Marie Louise,	*Chicago.*
Tregellas, Ida,	*Chicago,*

Trimble, Clara Eugenia, A.B., 1904,	*Fremont.*
Truscott, Laura M,	*Winchester.*
Tucker, Bert Floyd,	*Boston, Mo.*
Tucker, William Wallace,	*Kewanee.*
Tull, Allison Lee,	*Farmer City.*
Urban, Harvey Benjamin,	*Gibson City.*
Valerio, Ricardo,	*Saltillo, Mexico.*
Vanneman, Bessie E,	*Monticello.*
Vanderverre, Jennie May,	*Urbana.*
Verner, Arthur,	*Hoopeston.*
Vaughan, Walter Marion,	*Odell.*
Van Winkle, Jennie Edith,	*Avon.*
Voorhees, Lucien Whitman,	*Blue Island.*
Voorhes, Ralph Miller,	*Champaign.*
Voss, Mathilda C,	*Champaign.*
Wacaser, Franklin Edgar,	*Forrest.*
Waggener, William Eugene,	*Fisher.*
Waggoner, Harry Dwight,	*Granite City.*
Waits, Harmon Ebert,	*Petersburg.*
Waldorf, Mary,	*Peru.*
Washburn, Ludlow Joseph,	*Evanston.*
Wasson, Mary Ellen,	*Douglas.*
Watson, Ray Carl,	*Champaign.*
Wead, Urith Lois,	*Paris.*
Weatherly, Mary Ellen,	*Marshall.*
Weeks, Lyman S,	*Jackson, Mich.*
Weinberg, Nina Mary,	*Rushville.*
Wellman, Iva Dorrit,	*Champaign.*
Wellman, Orphia May,	*Champaign.*
Wenner, Florence Nightingale,	*Edwardsville.*
Wenz, Carolyn Louise,	*Harvard.*
West, Harry Grover,	*Mason City.*
West, Milton Mitchell,	*Hoopeston.*
West, William Allen,	*Omaha.*
Wheatlake, Burton Cyrenious Job,	*Greenville.*
Whitacre, Myrtle,	*Carbondale.*
White, Clarence Wilbur,	*Lacon.*
White, Lena Lee,	*Warsaw.*
Whiton, Sylvia Frances,	*Champaign.*
Whittenberg, Sarah Jane,	*Herrin.*
Wi'ard, Maud Harriett,	*Belvidere.*

Williams, Warren Stephen,	*Champaign.*
Williamson, Charles Gurley,	*Indianapolis, Ind.*
Williamson, Pearl,	*Champaign.*
Wilson, Sue Louise,	*Rosemond.*
Wilson, Willabelle Bernice,	*Champaign.*
Wimple, Maude Evangeline,	*Elgin.*
Withers, Mrs. Bertha Haven,	*Champaign.*
Woerner, Louise,	*Meadows.*
Woll, Henry L,	*Lovington.*
Wood, Beulah Miles,	*Petersburg.*
Wood, Iris Leota,	*Urbana.*
Wood, Lenore Elsa,	*Chrisman.*
Woodbridge, Mary Emily,	*Urbana.*
Woodford, Harriet Louise,	*Buffalo, N. Y.*
Wright, John Byron,	*Tallula.*
Wright, John Edward,	*Herscher.*
Wright, William Price,	*Libertyville.*
Wyatt, Roscoe D,	*Salem.*
Young, Rose,	*Rushville.*
Young, Thomas Earl,	*Lewistown.*
Yunk, Nellie,	*Sandoval.*
Zimmerman, Robert Paul,	*Peotone.*

COLLEGE OF LAW.

Third Year

Baird, John McCawley,	*Olney.*
Barloga, David Frederick,	*Pecatonica.*
Barricklow, Joseph Pugh,	*Urbana.*
Brown, Roy Hamlin, A.B., 1906,	*Sycamore.*
Child, Walter Ellsworth,	*Farmingdale.*
Clark, Robert Burton,	*Urbana.*
Dayton, Daniel V,	*Paris.*
Elliott, James Gladden,	*Pueblo, Colo.*
Feagans, Ray Frank,	*Peoria.*
Fisher, Leon Ernest,	*Springfield.*
Forman, Hamilton McClure,	*E. St. Louis.*
Hays, Herbert Augustus,	*Carbondale.*
Hilario, Juan Fernando,	*Batangas, P. I.*
Johnson, Alfred Atwood,	*Danville.*
Lewis, Thomas Beach,	*Fairbury.*

Lybarger, Rufus Edward,	*Avon.*
Lyman, Frank Decatur,	*Peoria.*
Moran, Harry Cummings,	*Canton.*
Morrison, John Emery,	*Danvers.*
Moynihan, Charles Joseph,	*White Hall.*
Nebeker, Mark Edmond,	*Clinton, Ind.*
Quinlan, Thomas William,	*Springfield.*
Roth, Harold Denico, LL.B., (*Univ. of Nebraska*), 1905,	*Urbana.*
Smith, Lowell Babcock,	*Sycamore.*
Thal, Hugo John,	*Champaign.*
Warder, Walter Bain, A.B., 1906,	*Cairo.*
Waugh, Robert William,	*Belvidere.*
Westervelt, Leverett Chase,	*Shelbyville.*
White, Horace Clinton,	*Urbana.*
Wood, Chase Harlington,	*Petersburg.*

Second Year

Barth, Oris,	*Chrisman.*
Bauer, Ralph Stanley, A.M., (*James Millikin Univ.*), 1906,	*Champaign.*
Beardsley, George Davis,	*Kansas City, Mo.*
Bookwalter, Robert R,	*Danville.*
Braden, Clarence Arthur, B.S., 1905,	*Sparta.*
Carrell, Charles Gashen,	*Greenup.*
Cherry, Clifford Allen,	*Oswego.*
Cunningham, Harrison Eugene, B.S., (*Blackburn Coll.*), 1905,	*Jonesboro.*
Dewey, Chester Robert,	*Morris.*
Dietrich, Rufus Samuel,	*Black River Falls, Wis*
Evans, George Evan,	*E. St. Louis.*
Everhart, Leon Ulysses,	*Urbana.*
Finch, Earl De Vere,	*Flora.*
Gill, Thomas Edward,	*Pecatonica.*
Gray, Albert B,	*Urbana.*
Herbstman, Julius Charles, A.B., (*McKendree Coll.*), 1901,	*Summerfield.*
Holton, Charles Ray,	*Colchester.*
Hutchin, Claire Elwood,	*Decatur.*
Johnson, Preston King,	*Salem.*
Johnston, James Milton,	*Milan.*

Kelly, Louis Ralph,	*DuQuoin.*
Little, Roger Frank, A.B., 1907,	*Champaign.*
Long, George Durward,	*Fulton.*
McLaughlin, Joseph Lyons,	*Salem.*
Maguire, William Chester,	*Urbana.*
Mamer, Christopher, Jr.,	*Chicago.*
Mershon, Noble Carlisle,	*Mt. Carroll.*
Messick, Joseph Breckenridge,	*E. St. Louis.*
Perring, Roy Dodge,	*Champaign.*
Prather, Clytus Ilus,	*Claremont.*
Pruitt, Glenn James,	*Urbana.*
Pursifull, Joseph Henry,	*Newton.*
Rose, Earl Eli,	*Olney.*
Schaefer, Paul Vincent,	*Carlyle.*
Stansbury, William Morris,	*Joliet.*
Sutherland, Leon Eugene,	*McNabb.*
Tice, Evert Homer,	*Greenview.*
Tygett, Roscoe,	*Carbondale.*
Vanneman, Harry Walter,	*Urbana.*
Walker, Clyde Hildebrand,	*St. Joseph.*
Wham, Fred Louis,	*Cartter.*
Wilson, Frederick Alexander,	*Gibson City.*
Wilson, Hugh Edward,	*Mason City.*
Wineman, Earl,	*Auburn.*

First Year

Anderson, Alphon Lester,	*Farmington.*
Anderson, Arthur F,	*Farmington.*
Angerstein, Thomas Chester,	*Hillsboro.*
Barnett, William Floyd, A.B., 1907,	*Barnett.*
Benjamin, Fred Parker,	*Watseka.*
Blaine, Charles Edmund,	*Avalon, Mo.*
Brewer, Cecil La Verne,	*Danville.*
Brewer, Claude Harold,	*Danville.*
Buenger, Louis,	*Edwardsville.*
Burns, Robert Henry,	*Murphysboro.*
Bush, Edward Morse,	*Joliet.*
Butler, Beatrice Martindale,	*Evanston.*
Christopher, Glenn Wilson,	*Rock Falls.*
Dady, Robert Henry,	*Gurney.*
Davis, Seymour Marquiss,	*Farmer City.*

Fasmer, Harry Bernard,	*Yorkville.*
Forester, Walter James,	*Du Quoin.*
Frederick, Otto,	*Sullivan.*
Frederick, Roscoe Charles,	*Sullivan.*
Fridrichs, Augustus Henry,	*Waterloo.*
Fullerton, Charles Bushnell,	*Ottawa.*
Furrow, Elmer Otis,	*Potomac.*
Greiner, Clarence Albin,	*Chicago.*
Gum, Percy Eli,	*Petersburg.*
Harris, John Woodman,	*Champaign.*
Hayes, Rollin Moulton,	*Rankin.*
Hewlett, Maddra Jackson,	*Kewanee.*
Hoff, Spencer Theodore,	*Chicago Heights.*
Hoffman, Norman,	*Centralia.*
Howard, Frank Gibbens,	*Rantoul.*
Hubbart, Gurth Searle,	*Philo.*
Huff, Roger Grant,	*Sullivan.*
Hunter, Clyde Harvey,	*Paxton.*
Irwin, William Wright,	*Danville.*
Iungerich, Harry Augustus,	*Rantoul.*
Johnson, Grant,	*St. Louis, Mo.*
Jones, Alba Allen,	*Decatur.*
Juul, Herbert Victor,	*Chicago.*
Knight, Bradley Jay,	*Rochelle.*
Knoche, Rolland,	*Ridgeville.*
Lane, Fletcher,	*Urbana.*
Lathrop, Ralph Brown,	*Robinson.*
Layden, John Emmett,	*Cheneyville.*
Lewis, Byron Ray,	*Bridgeport.*
Mabin, Gordon Henderson,	*Danville.*
Merritt, Guy Wilson,	*Buckley.*
Mills, Will Alonzo,	*Salem.*
Morgan, Clarence William,	*Chicago.*
Morris, Sidney McCagg,	*Oskaloosa, Ia.*
Norman, Elisha Powell,	*Tamalco.*
Palmer, John William,	*Neligh, Neb.*
Parr, Clyde Harrison,	*Granite City.*
Polk, John Luther, Jr., A.B., 1904,	*Champaign.*
Powers, James Michael,	*Mackinaw.*
Railsback, Fred Harold,	*Hopedale.*
Remick, Andrew Bernard,	*Trenton.*

Rentfro, Percie Cobbs,	*Monticello.*
Reynolds, John Joseph, Jr.,	*Rochelle.*
Rickard, Harry Lewis,	*Oswego.*
Rockwell, Louis,	*St. Charles.*
Seger, Ralph Reynolds,	*Morrison.*
Shipley, Henry Ellis,	*Petersburg.*
Smith, Milton Brassler,	*Buda.*
Snider, Ferdinand Peter,	*Charleston.*
Starr, Norman Smith,	*Charleston.*
Strauch, Bernard Andrew,	*Chadwick.*
Supple, Guy Justin,	*Danville.*
Swanson, Ernest,	*Paxton.*
Talbot, Robert Maitland,	*Geneva.*
Taylor, George Alexander,	*St. Louis, Mo.*
Thomson, Presson Waverly,	*Urbana.*
Ullrich, Joseph Edward,	*Chebanse.*
Voss, Daniel Ernest,	*Freeport.*
Wagner, Gilbert Frederick John,	*Princeton.*
Walker, George Richelieu,	*St. Louis, Mo.*
White, John Brown,	*Effingham.*
Williams, Henry Samuel,	*Onarga.*
Wilson, Edwin Leonard,	*Joliet.*
Wood, George Vernon,	*Rantoul.*
Yott, Francis Danneil,	*Chicago.*

SPECIALS

Biggs, John David,	*Greenville.*
Bland, Eugene,	*Findlay.*
Briggs, Warren Edward,	*Chicago.*
Busch, Louis Arthur,	*Urbana.*
Clayton, John Herman,	*Johnston City.*
Coonrad, Arthur Vivian,	*Marengo.*
Cunningham, Eugene Samuel,	*Pekin.*
Davis, Joel Thomas,	*St. Joseph.*
Davis, Robert Henry,	*Omaha, Ill.*
Esselborn, William,	*Pearl City.*
Fillmore, James Gurney,	*Woodstock.*
Finn, Samuel Norris,	*Cartter.*
Flood, John Peter,	*Loami.*
Gilbert, Charles Henry,	*Armstrong.*

Graham, Charles Wallace,	*Springfield.*
Graham, John David,	*Illiopolis.*
Gullett, Noah,	*Springfield.*
Gustin, Alpheus,	*Cave-in-Rock.*
Harriss, Judson Emery,	*DuQuoin.*
Hickman, Wilber Henry,	*Dudley.*
Hoberg, Oscar William,	*Peru.*
Kost, John Clinton,	*Bushnell.*
Lane, Clyde Clarence,	*Champaign.*
Leonard, William Hendricks,	*Wichita, Kas.*
McNutt, Thomas Murray,	*Humboldt.*
Mitchell, James Harry,	*Russellville, Ark.*
Ramoso, Armesto,	*San Isidro, P. I.*
Replogle, Karl McClellan,	*Champaign.*
Springer, Henry Strong,	*Las Vegas, N. Mex.*
Swisher, Jacob Armstrong,	*Wellington.*
Wahlheim, Frank John,	*Geneseo.*
Zimmerman, George Fulton Daniel,	*Mason City*

COLLEGE OF MEDICINE

(College of Physicians and Surgeons, Chicago)

SENIORS

Anthony, Robert Earnest, M.D., (*Hahnemann Medical Coll.*), 1907,	*Springfield.*
Armstrong, Robert William,	*Colfax, Wash.*
Arnold, Edward Max,	*Winnetka.*
Arnold, Samuel Edwin,	*Chicago.*
Bates, Charles Richard,	*Camp Point.*
Beers, Bertram Robert,	*West Ely, Quebec.*
Berger, John Milton, A.B., 1903,	*Dalton.*
Berry, Frederick Amon,	*Pittsfield.*
Beuker, Bernard J., M.D., (*Dearborn Medical Coll.*), 1906,	*Lansing.*
Billingslea, Martin Taylor, M.D., (*Dearborn Medical Coll.*), 1906,	*Chicago.*
Biwer, Edward Theodore,	*Lincoln.*
Brandon, William Albert,	*Carbondale.*
Brinckerhoff, Elmer Ellsworth,	*Lockport.*

Brown, Marcus Francis, B.A., (*Beloit Coll.*), 1899, M.D., (*Dearborn Medical Coll.*), 1907, *Chicago.*
Browning, Alonzo Alcesta, *Ogden, Utah.*
Buehler, Amil Albert, M.D., (*Chicago Homeopathic Medical Coll.*), 1904, *Spencer, Ia.*
Bullen, Clifford, M.D., (*Bennett Medical Coll.*), 1907, *Rector, Ark.*
Bundy, Herman Winford, *Lebanon, Ind.*
Camp, Foster Kendrick, M.D., (*Dearborn Medical Coll.*), 1907, *Chicago.*
Campbell, Roy, *Butte, Mont.*
Cassady, George Washington, M.D., (*Jenner Medical Coll.*), 1900, *Chicago.*
Christopher, Harry V, *London, O.*
Clark, Floyd Ferdinand, *Higbee, Mo.*
Clayton, Emanuel Harry, *Dixon.*
Clifton, Harry Ward, *Girard.*
Cockrell, Thomas Littleton, *Princeton, Mo.*
Comee, William Clyde, *Seymour, Wis.*
Cook, Mary Leah, *Maynesville, O.*
Cook, Wilber Daniel, M.D., (*Hahnemann Medical Coll.*), 1900, *Chicago.*
Copeland, Hollestar Norman John, *Chicago.*
Cousineau, George Lewis, M.D., (*Hahnemann Medical Coll.*), 1905, *Chicago.*
Dennis, James Francis, *Spickard, Mo.*
Doane, George Henry, *Aurora.*
Doerann, August Frederick, M.D., (*Illinois Medical Coll.*), 1906, *Chicago.*
Dolan, John Edward, *Kankakee.*
Doodokyau, Miss Yryrous Martin, *Adana, Turkey in Asia.*
Dornblaser, Thomas Franklin, *Chicago.*
Dowd, Richard Edward, *Hastings, Neb.*
Duff, Roden Robinson, *Chicago.*
Durkee, Charles Austin, *Fairmount, N. Dak.*
Eckman, John Wesley, Jr., *Decatur.*
Essick, Raymond Brooke, *Murphysboro.*
Evans, John Henry, *Chicago.*
Fortin, William Henry, *Chicago.*
Freitag, Matilda Mina, *Stanford.*

Fugina, George Romeo, *Fountain City, Wis.*
Gaudet, J. Alfred, *St. Joseph, N. B'nswick.*
Gearin, John Joseph, *Chicago.*
Gearon, Frank Emmett, *Chicago.*
Gerety, William Francis, *Danville.*
Goembel, Emery Wells, *Geneseo.*
Goldberger, Sollie Maxwell, *East Chicago.*
Goldenburg, Michael, M.D., (*Dearborn Medical Coll.*), 1906, *Chicago.*
Gollobith, Edward Frank, *Baldwin, Ia.*
Gordon, Glenn Godfrey, *Fair Play, Mo.*
Graves, Philip Abernethy, M.D., (*Dearborn Medical Coll.*), 1904, *Oak Park.*
Greer, Edwin James, *Butte, Mont.*
Griffin, Francis Joseph, A.B., (*All Hallow Coll., Salt Lake City, Utah*), 1903, *Chicago.*
Grinde, George Allen, A.B., (*Luther Coll.*), 1903, *De Forest, Wis.*
Haake, John Arthur, *Green, Kan.*
Hartung, Adolph, *Chicago.*
Hayhurst, Emery Roe, A.B., 1903, *Maywood.*
Hedges, William Elias, A.B., (*Princeton Coll.*), 1898, M.D., (*Chicago Homeopathic Coll.*), *Chicago.*
Hennig, Ernst Louis, *Oshkosh, Wis.*
Herbert, Gavin Shearer, *Keokuk, Ia.*
Hodsdon, Benjamin Franklin, M.D., (*Bowdoin Medical Coll.*), 1897, *Chicago.*
Howard, William James, *Washington, D. C.*
Hughes, Allen Pettit, M.D., (*Hahnemann Medical Coll.*), 1907, *Spokane, Wash.*
Hunsaker, Curtis A., *Cobden.*
Huntley, Fred Mortimer, M.D., (*Chicago Homeopathic Medical Coll.*), 1903, *Moulton, Mich.*
Hutchison, Charles Wesley, *Dawson, Ia.*
Hosmon, Sarah Longworth, *Newberg, Ind.*
Imwall, Charles William, M.D., (*Dearborn Medical Coll.*), 1907, *Covington, Ky.*
Ishmael, Oscar, *Cassville, Wis.*

Jamieson, Earl, M.D., (*Chicago Homeopathic Coll.*), 1905,	*Chicago.*
Josselyn, Thyra Hildegarde,	*Detroit, Mich.*
Joyce, Thomas Mathias,	*Waterloo, Wis.*
Kelly, Andrew Cyril,	*Charles City, Ia.*
Klinch, John McClellan, D.V.S., (*Ontario Coll.*), 1895, M.D., (*Barnes Medical Coll.*), 1905,	*Chicago.*
Knapp, John Luther,	*Franklin Furnace, O.*
Kucera, Jerome Francis, M.D., (*Dearborn Medical Coll.*), 1907,	*Chicago.*
Kulis, Jacob, M.D., (*Physio-Medical Coll.*), 1905,	*Chicago.*
Lalor, Joseph Clinton,	*Oregon, Wis.*
Larkin, William Raphael,	*Chicago.*
Laue, Wilmet Paul, M.D., (*Saginaw Medical Coll., Mich.*), 1903,	*Gary, Ind.*
Lederer, Arthur,	*Chicago.*
Lee, Alice Lulu,	*Sioux Falls, S. Dak.*
Lee, Newton Deyoe,	*Chicago.*
Lindstrom, Charles Oscar,	*Cuyler.*
Lipshulch, George Uriah, M.D., (*National Medical Coll.*), 1903,	*Chicago.*
Lund, John M.,	*Chicago.*
Lunn, Jacob Osmond,	*Chicago.*
McCabe, Bernard Vincent,	*Helena, Mont.*
McCormick, Roscoe C., B.S., 1901,	*Chicago.*
McGrory, Joseph Jay, M.D., (*Bennett Medical Coll.*), 1896,	*Chicago.*
Marion, Norman Edward,	*Aurora.*
Martinson, Elsie Marie, M.D., (*American Medical Missionary Coll.*), 1900,	*Chicago.*
Mayos, Charles Everett,	*Council Grove, Kan.*
Meade, Frank Sherwood, Jr.,	*Perth Amboy, N. J.*
Mercer, Whedon Worley,	*Peoria.*
Metcoff, Samuel, M.D., (*Dearborn Medical Coll.*), 1904,	*Chicago.*
Meyer, Carl Albert,	*Gilman.*
Mikkelson, Edward Michael,	*Chicago.*
Miller, Harry Clifford, B.S., (*Colo. Agri. Coll.*), 1899,	*Hotchkiss, Colo.*

Moran, James Michael, *Manhattan.*
Morrow, George William, *Versailles, Ind.*
Mosser, Robert, Ph.G., (*Chicago Coll. of Pharmacy*), 1891, *Chicago.*
Murphy, Elam Turner, A.B., (*Wabash Coll.*), 1899, A.M., (*Univ. of Indianapolis*), 1901, *Crawfordsville, Ind.*
Nassman, Valentine, M.D., (*Jenner Medical Coll.*), 1907, *Chicago.*
Needham, Frank Stewart, M.D., (*Dearborn Medical Coll.*), 1905, *Chicago.*
Neer, Wilmer Young, *Chicago.*
Niemeyer, George Beekman, *Chicago.*
Noger, George Joseph, *Chicago.*
Norris, Samuel Brown, *Anna.*
Nowack, Louis Henry, *Watertown, Wis.*
Nugent, Oscar Benton, M.D., (*Dearborn Medical Coll.*), 1907, *Chicago.*
Nussle, Albert Charles, *Chippewa Falls, Wis.*
O'Connell, Sarah Conley, *Chicago.*
Olkon, David Mortimer, D.D.S., (*Northwestern Coll.*), 1899, M.D., (*Dearborn Medical Coll.*), 1906, *Chicago.*
Ostrowski, Romuald Othelo, *Chicago.*
Otrich, Grover Cleveland, *Anna.*
Parks, Jennie Winship, *Cuba.*
Parrish, Homer Coulsen, *Creston, Wash.*
Pearce, Warren Frederick, *Quincy.*
Phillips, Roland Hodge, B.S., (*North American Coll., Rockford*), 1901, M.D., (*Bennett Medical Coll.*), 1907, *Chicago.*
Potter, LeRoy Calkins, M.D., (*Jenner Medical Coll.*), 1907, *Payson, Utah.*
Quigley, Timothy Charles, A.B., (*St. Ignatius Coll.*), 1904, *Chicago.*
Reese, Forrest Leslie, *Paris.*
Rosenweig, George, *Chicago.*
Samuel, Dillard Estep, *Chicago.*
Samuels, Maurice Wolf, *Chicago.*
Schmid, William F, M.D., (*Ensworth Medical Coll.*), 1895, *St. Joseph, Mo.*

Schmidt, Charles Leopold, *Chicago.*
Schneider, Carl Oscar, *Chicago.*
Schroeder, John Cleveland, *Half Day.*
Schuessler, Augustus William, *Joliet.*
Sexton, Ira J., *Chicago.*
Shultz, Ione, *Delphi, Ind.*
Silverberg, Charles William, *Woonsocket, R. I.*
Simon, Louis J, *Fond du Lac, Wis.*
Skwor, Charles James, *Kellnersville, Wis.*
Smejkal, Harry Jerome, *Mason City.*
Spear, John Frank, *Mason City.*
Spencer, George Joseph, *Chicago.*
Stawicki, John Paul, *Chicago.*
Steere, Harold Haines, M.D., (*Herring Medical Coll.*), 1903, *Chicago.*
Steiner, Louis Leo, *Loraine.*
Stocks, Arthur Lemuel, M.D., (*Chicago Homeopathic Coll.*), 1896, *Quincy.*
Strickland, George Wilson, B.A., (*Fisk Univ., Nashville, Tenn.*), 1901, M.D., (*Illinois Medical Coll.*), 1905, *Chicago.*
Studebaker, John Franklin, A.B., (*McPherson Coll., Kansas*), 1906, M.D., (*Hahnemann Medical Coll.*), 1906, *Summerfield, Kan.*
Summers, Martin Perigo, *Des Moines, Ia.*
Taylor, John Ellsworth, M.D., (*Physicians and Surgeons, St. Louis*), 1899, *Leopold, Ind.*
Theis, Victor, M.D., (*Dearborn Medical Coll.*), 1905, *Chicago.*
Thometz, Francis Peter, A.B., (*St. Ignatius Coll.*), 1904, *Chicago.*
Thurber, Harry Robert, *Yorkville.*
Tucker, George Willard, *Watseka.*
VonStauffer, Grace Salome, M.D., (*Herring Medical Coll.*), 1897, *Oak Park.*
Walker, Evahn Russell, B.S., (*Iowa State Coll.*), 1900, M.D., (*Medical Dep't, Iowa State Univ.*), 1905, *Chicago.*
Wallace, James Henry, *Ft. Wayne, Ind.*
Wedel, Gustav Frank Leo, M.D., (*Harvey Medical Coll.*), 1904, *Chicago.*

Wiersen, Theodore Martin, M.D., (*Bennett Medical Coll.*), 1906,	*Chicago.*
Williams, William,	*Eldorado, Wis.*
Wood, Annie,	*Chicago.*
Wood, Eulalie,	*St. Louis, Mo.*
Zeigler, Charles Arthur,	*Chicago.*

JUNIORS

Alderson, Starling Peters,	*Russellville, Ky.*
Allen, Orris Thomas,	*Brocton.*
Armstrong, Guy Edward,	*Green Bay, Wis.*
Aron, Matthew Jacob,	*Chicago.*
Aschauer, Albert George,	*Springfield.*
Beltzer, Charles Eugene,	*Osciata, Neb.*
Bennett, Myron Elroy,	*Pontiac.*
Boudreau, Haydee Ursula,	*Beaverville.*
Braham, Julian Alfred,	*Farmington, Mo.*
Bundy, Clyde Talbot,	*Iroquois.*
Burke, Alexander William,	*Chicago.*
Byers, Earle John,	*Belvidere.*
Caley, Daril Milton,	*Los Angeles, Cal.*
Camp, Harold Manlove,	*Brooklyn.*
Claeboe, Alfred Hanson,	*Chicago.*
Clark, Leslie William,	*Maquoketa, Ia.*
Cooperstein, Joseph,	*Chicago.*
Damkroeger, Henrietta,	*Chicago.*
Davis, Olga,	*Chicago.*
Donaldson, Henry Bardwell,	*Dixon.*
Eck, Gustav Elmer,	*Geneva.*
Eliason, Pehr Wilhelm,	*Moroni, Utah.*
Ellis, Clifford Cowdel,	*Chattanooga, Tenn.*
Elliston, Leroy Bertram,	*Princeton.*
Elward, Lawrence Richard,	*Chicago.*
Ely, William Ray,	*Chicago.*
Erwin, Harry George,	*Decatur, Ind.*
Foote, Austin Alfred,	*Clay Center, Kas.*
Formis, John Kirk,	*Florence, Italy.*
Freemel, Isaac Frank,	*Chicago.*
Freese, Arthur William,	*Chicago.*
Furman, Raymond,	*Larsen, Wis.*

Gabby, Samuel Lee,	*Pawnee City, Neb.*
Gindele, George William,	*Chicago.*
Gregg, Arthur W, Ph.G., (*Northwestern School of Pharmacy*), 1904,	*Bloomington.*
Griffiths, Evan Henry Montgomery, Jr.,	*Chicago.*
Hammerstrand, Frank Leonard,	*Rankin.*
Harriman, Leonard,	*Chili, Wis.*
Harrison, Bruce Ashton,	*Bryant.*
Hatch, Ernest Downing,	*Chicago.*
Heacock, Edward Morton,	*Topeka, Kan.*
Hirschberg, Frieda,	*Grand Rapids, Mich.*
Hoffman, Ira E,	*Chicago.*
Hofman, Andrew,	*Grand Rapids, Mich.*
Hogan, John Vincent,	*Niagara Falls, N. Y.*
Howser, Reid Owen,	*Marion, O.*
Hurlbut, Edward Franklin,	*Chandler, Okla.*
Hurley, George Ira, B.L., (*Milton Coll.*), 1903,	*Milton, Wis.*
Ingold, John George,	*Riga, Mich.*
Jindra, Frank F,	*Chicago.*
Johnson, Charles Warren,	*Hopkinsville, Ky.*
Joyce, Eduard,	*Dunlap, Ia.*
Kapsa, Pauline Rose,	*Chicago.*
King, Alphonsus Vincent,	*Chicago.*
Kipp, Cora Irene,	*Mineral.*
Kirby, Oliver Cromwell,	*Penfield.*
Kjandal, Alf Magnus,	*Chicago.*
Kramer, Carl Frederick Conrad,	*Chicago.*
Krafft, Henry Louis,	*Chicago.*
Kraut, Elgie,	*North Andover, Wis.*
Krudenier, Albert Brown,	*Pella, Ia.*
Leavy, Cuthbert Joseph,	*Oshkosh, Wis.*
Lee, Milo,	*Aledo.*
Lee, Walter Nordal,	*Sioux Falls, S. Dak.*
Leviton, Henry Isaac,	*Chicago.*
Link, Claude Allen,	*Chicago.*
McIntyre, William Russel,	*Mendota.*
Mackoy, Thomas Daniel,	*Quincy.*
McLallen, Robert Roy,	*Aurora.*
Marietta, Shelley Uriah, D.D.S., (*Drake Univ.*), 1902,	*Des Moines, Ia.*

Matthaei, David William, *Wathena, Kan.*
Mensing, Edmund Hermann, *Milwaukee, Wis.*
Merten, Peter Joseph, *Milwaukee, Wis.*
Miller, Louis Henry, *Pana.*
Mills, Claude J, *Sabina, O.*
Mills, Lewis Eelaware, *Sabina, O.*
Minke, Jacob John, B.S., (*St. Mary's Institute, Dayton, O.*), 1901, *Chicago.*
Moore, Greene, B.S., (*Talladega Coll.*), 1904, *Chicago.*
Moore, Samuel Marcus, *Chicago.*
Moran, James Henry, *Chicago.*
Mortensen, Oscar Nicholas, *Waupaca, Wis.*
Murphey, Walter Thomas, *Lima, O.*
Musselman, George Henry, *Dana, Ind.*
Nahman, Adolph Herman, *Chicago.*
Nassar, Na'if Isa, *Munsif, Syria.*
Newman, John Lewis, *Chicago.*
Nicolai, John Leonard, *Chicago.*
Ochsner, Emil, *Waumandee, Wis.*
Post, George Washington, B.S., (*Milton Coll.*), 1905, *Chicago.*
Pugh, Bernard McCarthy, *Lincoln.*
Quinn, Lenard Cardinal, *Goldfield, Neb.*
Rhodes, Thomas Whitson, *Whiteville, Tenn.*
Rose, Wallace Edson, *Mukwonago, Wis.*
Ruus, Canute Walter, *Chicago.*
Ryan, John Charles, *New York, N. Y.*
Salzman, Samuel, *Chicago.*
Saum, Roy George, *Gilman.*
Smith, William Polson, *Chicago.*
Stromberg, Gustavus Emanuel, *Chicago.*
Summerfeld, Otto Charles, *Chicago.*
Thimlor, Wiley J, *New Haven, Ind.*
Tiffin, Edwin Raymond, Ph.G., (*Washington State Coll.*), 1904, *Spokane, Wash.*
Torrens, Aaron Samuel, *Austin, Minn.*
Townsley, Frank Livingston, *Idaville, Ind.*
Turner, John Arthur, Ph.G., (*Northwestern Univ. School of Pharmacy*), 1903, *Chicago.*

Tyrrell, Adelaide Mary,	*Chicago.*
Van Hoesen, Elizabeth Nell,	*Wilmette.*
Wahl, Constantine Maximilian,	*Cross Plains, Wis.*
Wakefield, Orin Russell,	*Chicago.*
Watkins, Raymond Edward,	*Chenoa.*
Wheeler, Mary Margaret, A.B., 1906,	*Grant Park.*
Willard, Clarence James,	*Mazomanie, Wis.*
Wilson, Frederic Riley,	*Richland, Ore.*
Wolf, Louis Harry,	*Chicago.*
Wyant, Andrew Robert Elmer,	*Chicago.*

SOPHOMORES

Athon, Lewis Harlan,	*Anna.*
Ballard, Leon Jonathan,	*Chicago.*
Bantug, Jose Policarpio,	*San Isidro, Nuerva Eeija, P. I.*
Benson, Axil Ferdinand,	*Batavia.*
Bentzien, Emil William,	*Milwaukee, Wis.*
Borchert, Robert Lambert,	*Chicago.*
Bradley, William Horrace,	*White Heath.*
Callahan, Herbert Williams,	*Garden City, Kan.*
Cary, Lee Winfield,	*Chicago.*
Charbonneau, Arthur Ames,	*Ishpeming, Mich.*
Cohn, Joseph Samuel,	*Chicago.*
Crouch, David Proudfit,	*Belle Prairie.*
Currer, Paul MacAllister,	*La Suer, Minn.*
Czeslawski, Edward Felix, A.B., (*St. Stanislaus Coll.*), 1906,	*Chicago.*
Dale, Edna Valeria,	*Versailles, Mo.*
Davis, John Franklin,	*Bardin.*
Donahue, James Ignatius,	*Chicago.*
Donlon, Thomas Henry,	*Chicago.*
Douglass, Frank Gerald,	*Chicago.*
Epley, Clarence Oscar,	*Waverly, Ia.*
Epstein, William George,	*Chicago.*
Farbar, Marian Eleanor,	*Beatrice, Neb.*
Firey, Walter Irving,	*Aberdeen, S. Dak.*
Foronda, Manuel Directo,	*Santa Maria, Illocus Sur, P. I.*
Frazier, Frank V,	*Gallatin, Mo.*

Frogner, Guy Samuel,	*Waupaca, Wis.*
Gallardo, Marcelino Mendoza,	*San Isidro, Nueva Ecija, P. I.*
Gillispie, James Charles,	*Chicago.*
Goj, Michael,	*Chicago.*
Graner, Leonard Henry,	*Green Bay, Wis.*
Green, Abraham Chester,	*Chicago.*
Greenberg, Ira Edward,	*Chicago.*
Grove, Arthur Francis,	*Plainview, Minn.*
Gross, William August,	*Elgin.*
Hedrick, William Roy,	*Noble.*
Heim, Russell Rulo,	*Plymouth, Ind.*
Hercik, William Louis,	*Chicago.*
Hughes, Joseph Walter,	*Chicago.*
Jackson, Gordon,	*Cincinnati, O.*
Jacobs, Edward Benjamin,	*Chicago.*
Johnston, Cecil James,	*Fostoria, O.*
Johnston, Frederick Victor,	*Chrisman.*
Jordan, Alvin Thomas,	*Pliny, W. Va.*
Kaczmarek, Edward Klemens, A.B., (*St. Stanislaus Academy*), 1906,	*Chicago.*
Kara, John Matthew,	*Chicago.*
Largent, Benjamin Franklin, A.B., (*Ky. Military Institute, Louisville, Ky.*), 1904,	*McKinney, Tex.*
Laybourne, Ethel Mae,	*Greencastle, Ind.*
LeBeau, Albert Arthur,	*Chicago.*
LeBeau, Phillip Max,	*Chicago.*
Loomis, Western Cass,	*Chicago.*
Meacham, William Charles,	*Oak Park.*
Meany, Daniel Edward,	*Chicago.*
Moore, Otis Andrew, B.S., (*Lincoln Inst., Jefferson City, Mo.*), 1905,	*Columbia, Mo.*
Murdock, Edgar Paul,	*Chicago.*
McElvain, Robert Childers,	*Duquoin.*
McGarry, Charles Patrick,	*Chicago.*
McKee, Walter Caraway,	*Chrisman.*
McLin, Thomas Garfield,	*Fairfield.*
McNealy, Ray William,	*Burlington, Ia.*
O'Donnel, Dennis Michael,	*Aberdeen, S. Dak.*

Ostrowski, Florian George, A.B., (*St. Stanislaus Academy*), 1905,	*Chicago.*
O'Sullivan, Helen Amelia,	*Crystal, S. Dak.*
Parke, Edward Ray,	*Richland Center, Wis.*
Parker, Frederick Charles,	*Oak Park.*
de la Paz, Danill,	*Gapan, Nueva, Eeija, P.I.*
Pearson, Albert,	*Chicago.*
Pettepiece, Thomas Arthur,	*Freeport.*
Pitt, Harvey,	*Dixon Corners, Ont.*
Pulley, Louis Ammon,	*Chicago.*
Reyes, Carmelo Ma,	*Lipa, Batangas, P. I.*
Rich, Homer Erastus,	*Salt Lake City, Utah.*
Righeimer, John William,	*Chicago.*
Rogers, Jay Clifford,	*White Lake, S. Dak.*
Rothwell, William Thomas,	*Belle Plaine, Kan.*
Santos. Gerrasio y Cuyugan,	*San Fernando, Pampanga, P. I.*
Schafer, William Daniel,	*Franklin Furnace, O.*
Siegler, William Joseph,	*Chicago.*
Smith, Sidney Albert,	*Chillicothe.*
Soelberg, Paul Arthur,	*Granite Falls, Minn.*
Spitler, Frank Perry,	*Dayton, O.*
Stubenrauch, George Jacob, Ph.G., (*Northwestern Univ.*), 1892,	*Chicago.*
Sword, Howard Russell,	*Lanark.*
Thomas, Frank,	*Canton.*
Thompson, Gordon Graham, B.S., (*McAllester Coll., St. Paul, Minn.*), 1906,	*St. Croix Falls, Wis.*
Tolentino, Nariano,	*Magsingal, Illocos Sur. P. I.*
Vaile, DeWitt Clinton,	*Rochelle.*
Viltullo, DeWitt Clinton,	*Rochelle.*
Voigt, Benjamin John,	*Kankakee.*
Walsh, John Emmett,	*Richland Center, Wis.*
Wilson, William H,	*Murray, Ky.*

FRESHMEN

Barding, Lewis D,	*Pana.*
Bashur, Miss R. Zerefeh,	*Tripoli, Syria.*
Baxter, Alfred J,	*Astoria.*

Bishkow, Isadore Edward, *Chicago.*
Boone, Cornelius Edward, *Zeeland, Mich.*
Boyden, Wesley Lewis, *Seymour, Wis.*
Browers, Arthur Grant, *Chicago.*
Brown, Mamie Isabel, *Iroquois.*
Burkholder, Calder Phillips, *Marengo.*
Burt, Clarence Edward, *Henry.*
Caddick, Earle, *Quincy.*
Carter, Franklin Harvick, *Vienna.*
Colteaux, John Alfred, *Roberts.*
Cragin, Wiley Moroni, *Ogden.*
Craine, John Byne, *Chicago.*
Cress, W. W, *Monticello, Ind.*
Czaja, Leon Matthew, *Chicago.*
Czekala, Henry Joseph, *Chicago.*
Dooley, Harry Joseph, *Chicago.*
Doyle, Nicholas Murray, *Freelton, Ontario, Canada.*
Duffy, Hugh John, *Chicago.*
Egermayer, George Washington, *Chicago.*
Elliott, Loyd Albert, *Elkhart, Ind.*
French, Robert Royal, *Chicago.*
Fuchsmann, Maury, *Chicago.*
Goodman, Charles, *Chicago.*
Gratzek, Thomas, *Florian, Minn.*
Haas, George Albert, *Chicago.*
Hagie, Franklin Eugene, *Elizabeth.*
Hammond, Walter Charles, *Chicago.*
Hanzlik, Paul John, *Cedar Rapids, Ia.*
Harkins, Claude Howard, *Macomb.*
Hart, John Franklin, *Quincy.*
Hartrick, Louis Eugene, B.S., 1901, *Urbana.*
Hass, Richard, *Chicago.*
Henderson, Frederick Arthur, *Anderson, Ind.*
Hess, Edward, *Chicago.*
Huckin, Franklin Roscoe, *Ogden.*
Huyser, William C, *Zeeland, Mich.*
Ihland, Leonard, *DeForest, Wis.*
James, William Alfred, *Chicago.*
Johnson, John Henry, *Chicago.*
Jones, David Jimson, *Chicago.*

Kelleher, George Francis,	*Elkader, Ia.*
Kistinger, William Frederick,	*Ransom.*
Kittelson, Emil C,	*Rochelle.*
Knott, Harry,	*Plymouth, Ind.*
Lapham, Elah A,	*Chicago.*
Lauzer, Fred Arthur,	*Hutchinson, Minn.*
Levinson, Abraham,	*Maywood.*
Leviton, Nathan David,	*Chicago.*
McCarthy, Ralph Rowland,	*Chicago.*
McClellan, John Hancock, Ph.D., (*Harvard Univ.*), 1906,	*Lexington, Ky.*
McCormack, Alexander Edwin,	*Elgin.*
Macko, Theodore Frederick,	*Chicago.*
Maher, Loretta Katherine,	*Chicago.*
Manno, Gaspare,	*Chicago.*
Manoogian, Krikore Manoogian,	*Choonkoosh, Armenia.*
Mosley, Elmer W,	*Chicago.*
Orzechowski, Victor,	*Chicago.*
Ostrowski, Leonard Joseph, Ph.G., (*Chicago Coll. of Pharmacy*), 1905,	*Hammond, Ind.*
Perez, Gilbert Summers, B.S.,	*Chicago.*
Pratt, Roscoe Wellington,	*Chicago.*
Ricker, Charles Craver,	*Harvey.*
Riley, William John,	*Darlington, Wis.*
Rutkus, Susan Aldona,	*Grassville, Ind.*
Sanders, Robert Quirk, A.B., (*James Millikin Univ.*), 1907,	*Decatur.*
Schwartz, Harriett Cecelia,	*Bessemer, Mich.*
Shaynin, James,	*Oak Park,*
Sochat, Leon,	*Chicago.*
Squire, Charles Milton,	*Rockport, Ind.*
Sprecher, Louis Harrison,	*Lanark.*
Stordock, Gilman Llewelyn,	*Beloit, Wis.*
Sullivan, Norman Ross,	*Aspen, Colo.*
Sutter, Rose Irene,	*Crookston, Minn.*
Ten Broeck, Carl,	*Parsons, Kan.*
Thomas, Colin G,	*Monticello.*
Tichenor, Elmore Drane.	*New Orleans, La.*
Valentine, James Andrew,	*Conrad, Ia.*
Vilna, Bretislav Lidumil,	*Chicago.*
Way, George Fritz,	*Gibson City.*

Wilson, Franklin Samuel, Ph.G., (*Univ. of Ill. School of Pharmacy*), 1894, *Chicago.*
Wilson, Henry Mason, *Magnolia.*
Winder, Hiram Louis, *Rochelle.*
Yeck, Charles Walter, *Flora.*
Zimmerman, Goldie Eleonara, *Aberdeen, S. Dak.*

SPECIALS

Browning, Harry DeForest, *Moline.*
Collier, Lewis B, M.D., (*Rush Medical Coll.*), 1889, *Merrill, Wis.*
Fisher, Roy Gavin, *Chicago.*
Harrell, Francis Marion, D.D.S., (*Kansas City Dental Coll.*), 1879, M.D., (*Keokuk Medical Coll.*), 1881, *Chicago.*
Kennedy, James G, Ph.D., 1888, M.D., (*Jenner Medical Coll.*), 1898, *Chicago.*
Lewis, Clyde Austin, M.D., (*Bennett Medical Coll.*), 1907, *Chicago.*
Lewis, Margaret Douglas, M.D., (*Northwestern Medical Coll.*), 1897, *Bareilly, India.*
Morrison, Hugh Tucker, A.B., (*Drake Univ.*), 1900, *Chicago.*
Nickel, Frank William, *Charles City, Ia.*
Preston, Benjamin Spotswood, Ph.G., (*Univ. Coll. of Medicine, Richmond, Va.*), 1897, M.D., (*Physicians and Surgeons, Baltimore, Md.*), 1902, *Burnwell, W. Va.*
Schnurrenberger, Joseph Henry, *West Austin, O.*
Sheppard, James Roseborough, M.D., (*Flint Medical Coll.*), 1904, *Lodi, Tex.*
Shutan, Mary, B.S., (*Florida State Coll.*), 1902, *Chicago.*
Steele, Harry George, M.D., (*Physicians and Surgeons, Baltimore*), 1903, *Keystone, W. Va.*
Stone, Frank Lee, *Chicago.*
Thompsen, Elmer H, M.D., (*Rush Medical Coll.*), 1903, *Burbank, Cal.*
Thurman, Robert Thomas, M.D., (*Louisville Medical Coll.*), 1907, *Muskogee, I. T.*

Walt, David Crockett,	*Little Rock, Ark.*
Wright, Ida May,	*Chicago.*
Wunderlich, Anna Amalia,	*Chicago.*

COLLEGE OF DENTISTY

SENIORS

Armstrong, Neil Holland,	*Urbana.*
Bandelin, Carl Frederick,	*Grand Rapids, Wis.*
Bernard, Frank Joseph,	*Galena.*
Budworth, Clyde Alvin,	*Cassville, Wis.*
Burke, William Theo,	*Ishpeming, Mich.*
Daye, Chester Walter,	*Westfield, Wis.*
Earley, William Francis,	*Streator.*
Ebert, Frederick Edward,	*Champaign.*
Ehrlich, George Theodore,	*Chicago.*
Feldsher, Noah,	*Chicago.*
Faber, Henry Nicholas,	*Jersey City, N. J.*
Green, Jacob,	*Chicago.*
von der Heydt, Harry Karl,	*Oak Park.*
Hopkins, Hugh Benjamin,	*Valders, Wis.*
Hough, Michael Francis,	*Chicago.*
Jones, Harry Lysander,	*Chicago.*
Joyce, Frank LeRoy,	*Waterloo, Wis.*
Kaufman, Henry Joseph,	*Freeman, S. D.*
Klumb, Edward Frederic,	*Thiensville, Wis.*
Korshak, Harry Max,	*Chicago.*
Kubitz, Harvey H,	*Oak Park.*
Larsen, James Andres,	*Chicago.*
Mitchell, Walter Theron,	*Macon, Ga.*
Newman, Louis,	*Chicago.*
Ponce, Francisco,	*Bulocau, P. I.*
Pontius, Melvin E,	*Presho, S. D.*
Ramsey, Paul H,	*Aledo.*
Stone, Reuben Alexius,	*Chicago.*
Stone, William H,	*Chicago.*
Stoughton, Elmer Bovee,	*Rogers, Ark.*
Swatek, Edwin Paul,	*Chicago.*
Vorwerk, Frederick William,	*Chicago.*
Willcox, Henry L,	*Rochelle.*
Warner, Maud Muriel,	*Chicago.*
Warner, Clyde Herbert,	*Chicago.*

JUNIORS

Arcn, Rose,	*Chicago.*
Bailey, Orpha Clark,	*Leesburg, Ohio.*
Berlin, Ben,	*Chicago.*
Browne, Alexander Cecil,	*Chicago,*
Droberg, Walter,	*LaPorte, Ind.*
Feiok, Richard F,	*Freeman, S. D.*
Gordan, Douglas Clyde,	*Fairplay, Mo.*
Hanson, Herbert S,	*Chicago.*
Johnson, H. Clifton,	*Hopkinsville, Ky.*
Lerche, Thorleif,	*Chicago.*
Seidel, Julius H,	*Quincy.*
Shaver, Maitland V,	*Irving Park.*
Shunk, Bernice Bentley,	*Sharon, Wis.*
Williams, John Caldwell,	*Jacksonville, Ala.*

FRESHMEN

Andrews, William Hayward,	*Oak Park.*
Brock, Alonzo S,	*Louisville, Ky.*
Bellows, Hgalman N. O.	*Chicago.*
Coghlin, William Perry,	*Kankakee.*
Feferman, Harry,	*Chicago.*
Hayes, Elmer Alexander,	*Galva.*
Henninger, Bernard L,	*Chicago.*
Jacobstein, William Benjamin,	*Chicago.*
Kressin, Louis J,	*Milwaukee, Wis.*
Larkin, Hugh Alfred,	*Northfield, Minn.*
Latham, Lloyd Warner,	*Pekin.*
Lee, Victor Lawrence,	*Chicago.*
McNulty, James Anthony,	*Spring Green, Wis.*
Mercer, Samuel Osburn,	*Mt. Pleasant, O.*
Moomey, Medil Lloyd,	*Blue Mound.*
Nordeen, Emil Ludwig,	*Chicago.*
O'Hora, James Anthony,	*Avoca, Wis.*
Rasmussen, Paul Erven,	*Omaha, Neb.*
Rosengreen, John H,	*Salt Lake City, Utah.*
Russakov, Samuel Issac,	*Chicago.*
Shafer, Harry Burns,	*Anna.*
Shaffer, Lee H,	*Aledo.*
Schacht, Charles H,	*Chicago.*

Taft, Walter Leonard,	*Knoxville, Pa.*
Vann, George Henry,	*Clinton, N. Y.*
Whitehead, John William,	*Easton.*

SPECIAL STUDENT

Kingsley, Austin Cain,	*Jacksonville.*

SCHOOL OF PHARMACY

SENIORS

Afremow, George,	*Chicago.*
Anderson, Fred Kramer,	*Wenona.*
Baldwin, Harold Dudley,	*Hampton, Ia.*
Banerjee, Amar Nath, L.M.S., (*Calcutta University*), 1901,	*Bemares City, India.*
Blatt, Joseph Arnold,	*Chicago.*
Bowden, William Turner, A.B., (*Roger Williams University*), 1905.	*Chicago.*
Cazel, Ernest Clyde,	*Evanston.*
Crawford, Leslie Ray,	*Nachusa.*
Dahlin, Horace Otto,	*Pittsburg, Pa.*
Davies, Byron Lake,	*Chicago.*
Denson, Wayne Crawford,	*Minonk.*
Doerr, Walter William,	*Chicago.*
Dunn, Everett Aldon,	*Duquoin.*
Earel, Raleigh,	*Quincy.*
Ferguson, William Allen,	*Minooka.*
Fett, Otto August,	*Chicago.*
Fidler, Delmar Nelson,	*Watseka.*
Frantz, Bruce Carr,	*Pekin, Ind.*
Ginnsy, Leo Aloysius,	*Chicago.*
Gray, Ralph Mortimer,	*Chicago Heights.*
Heimsath, Peter Albert,	*Aurora.*
Kisner, Auburn Seth,	*Brownsville.*
Knick, George Ferdinand,	*Chicago.*
Kohn, Newman,	*Chicago.*
Kraft, Herbert Ernest,	*Chicago.*
Kuflewski, Frank August,	*Chicago.*
Langenhan, Henry August,	*Ableman, Wis.*
Lorenz, Otto John,	*Chicago.*
Luckenbach, Walter Conrad,	*Oconto, Wis.*

Lukasek, Otto William,	*Chicago.*
Luken, Edward Emil,	*Chicago.*
Lyons, Frederick James,	*Grand Junction, Mich.*
Miles, Eugene Lester,	*Chicago.*
Miller, James Strachen,	*Coal City.*
Mottar, William Darrell,	*Springfield.*
Munns, Elmer Edward,	*Chicago.*
Owens, Alvardo Benson,	*Savanna.*
Pavlicek, Adolph Vaclav,	*Chicago.*
Polk, John Knox,	*Versailles, Ky.*
Powell, Thomas Benton, Jr.,	*Vienna.*
Propp, Charles,	*Chicago.*
Rauschert, Herman Lawrence,	*Lake Mills, Wis.*
Renaud, James Patrick,	*Chicago.*
Ruesch, William Emanuel,	*Joliet.*
Schreiber, Paul Fred,	*Chicago.*
Sells, Charles George,	*Chicago.*
Serritella, Michael Archangel,	*Chicago.*
Shipman, Frank Edmund,	*Paris.*
Skinner, Harry Garrison,	*Yates City.*
Soult, Roy Mont,	*Fredonia, Pa.*
Staman, William J,	*St. Joe, Ind.*
Stark, Carl Frederick,	*DeKalb.*
Staszak, John,	*Chicago.*
Stromer, Frank Bengal,	*Chicago.*
Stuker, Conrad Stephan.	*Chicago.*
Tervehn, William Richard,	*Peoria.*
Tomlinson, Walter Edmund,	*Galesburg.*
Tompkins, Rexford De,	*Mt. Sterling.*
Urban, John Joseph,	*Chicago.*
Voss, Steward Franklin,	*Assumption.*
Webster, Stanley Ballenger,	*Winslow.*
Williamson, Wyley Porter,	*Marietta, O.*
Wirth, George Carl,	*Duluth, Minn.*
Zuck, Frank James,	*Rockford.*

JUNIORS

Alford, James Bell,	*Columbus, Miss.*
Anderson, Gustav Adolph,	*Rockford.*
Anderson, Mary Scott Leinbaugh,	*Dallas City.*
Annibale, Frank,	*Chicago.*

Arkins, James Elmer,	*LaSalle.*
Arthur, Howard,	*Decatur.*
Baker, Luther,	*Astoria.*
Barnett, Irving Francis,	*Chicago.*
Battaglia, Joseph,	*Chicago.*
Bazner, Gustav,	*Chicago.*
Beck, Frank Lewis,	*Anderson, Ind.*
Berg, Conrad August,	*Roseland.*
Beyermann, Hugo Frank,	*Chicago.*
Bills, Joseph LeRoy,	*Shelton, Neb.*
Bock, William,	*Smithton.*
Brown, Charles Wesley,	*Ruthville, Va.*
Bruzewicz, Joseph,	*Chicago.*
Bujewski, Thadeus John,	*Chicago.*
Buresch, Louis Albert,	*Chicago.*
Calabrese, Vincenzo,	*Chicago.*
Caldwell, Robert Henry,	*Caledonia, Miss.*
Carthan, William Arthur, A.B., (*Morris Brown College*), 1902,	*East Macon, Ga.*
Carvelli, John,	*Chicago.*
Cheleski, John Kosmer,	*Chicago.*
Cholewinski, Andrew Francis,	*Chicago.*
Cohn, David,	*Springfield.*
Cole, Arvelle Richard,	*St. Louis Mo.*
Comes, Urban Volpert,	*Chicago.*
Conkey, Aaron W,	*Blandinsville.*
Conners, Harry,	*Bellevue, O.*
Cover, Augustus Fringer,	*Toulon.*
Cropper, Pearl Arthur,	*Chicago.*
Czaja, Leo Matthew,	*Chicago.*
DeMers, Octave Jay,	*Assumption.*
Downs, Cashes Clay,	*Danville.*
Eck, Charles Patt,	*Chicago.*
Edlund, Arthur,	*Chicago.*
Eicher, Anna,	*Chicago.*
Elliott, Leo E,	*Chicago.*
Elson, John LeRoy,	*Chicago.*
Englund, Arthur Theodore,	*Escanaba, Mich.*
Evans, Oliver Morton,	*Decatur.*
Fernholz, Emil Godfrey,	*Harvard.*
Fingl, Anton William,	*Chicago.*

Fingl, Edward George,	*Chicago.*
Fitzsimmons, LeRoy,	*Muscatine, Ia.*
Ford, Robert Emmett,	*Denver, Colo.*
Frauenhoff, Frederick Louis,	*Aurora.*
Frish, Frank Lawrence,	*Chicago.*
Gamalski, Joseph George,	*Detroit, Mich.*
Gans, Arthur,	*Council Bluffs, Ia.*
Gold, Hymen,	*Chicago.*
Golombiewski, John Peter,	*Chicago.*
Gross, Schuyler Van Rensselaer,	*Lake Mills, Wis.*
Grosse, Benjamin Carl,	*Elgin.*
Grove, John Cell,	*Chambersburg, Penn.*
Gunning, DeLancy Thomas,	*Wilmington.*
Gunther, Edward William,	*LaSalle.*
Hagan, James Harry,	*Chicago.*
Haider, Walter,	*Beaver Dam, Wis.*
Halfacre, Edward Joseph,	*Columbia, Tenn.*
Halperin, Louis Evan,	*Chicago.*
Hammar, Leonard Axel,	*Chicago.*
Heath, Charles Ford,	*Chicago.*
Heimsoth, Henry Christian John,	*Havanna.*
Herter, Henry Anthony,	*Springfield.*
Hibbe, Charles,	*Chicago.*
Hindman, Finis,	*Herrin.*
Howell, Julian Buhner,	*DuQuoin.*
Howly, John George,	*LaCrosse, Wis.*
Jenkins, William Laud,	*Eastman, Ga.*
Jodar, Louis Paul,	*Plymouth, Wis.*
Johnson, William Frederic,	*Keithsburg.*
Johnston, John Lynch,	*Chicago.*
Josenhans, Paul Reinhold,	*Chicago.*
Kehoe, John Carolan,	*Waukegan.*
King, Charles Aaron,	*Chicago.*
Knox, William Pierce,	*Rensselaer, Ind.*
Kobylanski, John Francis,	*Chicago.*
Konopa, Joseph Florian,	*Chicago.*
Koukalik, Albert,	*Chicago.*
Kowalski, Czeslaw Martin,	*Chicago.*
Kral, Fred Frank,	*Chicago.*
Kremer, Frank, Jr.,	*Chicago.*
Krupicka, Joseph,	*Chicago.*

Leininger, Otto William,	*Chicago.*
Lindstrum, Charles Edward,	*Chicago.*
Liska, John Joseph,	*Chicago.*
Logan, Chester Arthur,	*Elizabeth.*
Lutz, Carl William,	*Ottawa.*
McDonnell, Philip Rodger,	*Chicago.*
McNamara, Thomas Joseph,	*Ottawa.*
Madison, Douglas Thompson,	*West Chicago.*
Marcotte, Adelard,	*Kankakee.*
Marks, Leon Arthur,	*Cincinnati, O.*
Matey, Charles,	*Chicago.*
Michalek, John Joseph,	*Chicago.*
Millen, Justus Townsend,	*Springfield.*
Moffat, Frederic Earle,	*Park Ridge.*
Montgomery, Grover Cleveland,	*Birds.*
Mori, Kinro,	*Nagoya, Japan.*
Moritz, John August,	*Chicago.*
Mrazek, Charles Joseph,	*Chicago.*
Mueller, John Fred,	*Quincy.*
Myerson, Edwin Sidney,	*Chicago.*
Nathan, David,	*Chicago.*
Naviaux, Albert Renny,	*Lexington, Neb.*
Niedzwiecki, Leo Joseph,	*Chicago.*
Nielsen, Charles Frederick,	*Chicago.*
Niemeyer, Albert Philip,	*Quincy.*
Niesen, Theodore Bernard,	*LaSalle.*
Niggling, Martin,	*Remsen, Ia.*
Oberg, Clarence Julius,	*Chicago.*
Oberg, Oscar Carl,	*Rock Island.*
Ogg, Roy Roscoe,	*Springfield.*
O'Meara, William Aloysius,	*Chicago.*
Osborne, Thomas,	*Chicago.*
Parrella, Salvatore,	*Chicago.*
Pelikan, Edward Joseph,	*Chicago.*
Pellett, Walter John,	*Manitowoc, Wis.*
Pellettieri, Amedes,	*Chicago.*
Pellettieri, John,	*Chicago.*
Peska, Alexander Casimir,	*Chicago.*
Peters, Henry Onno,	*Peoria.*
Pisani, Vito,	*Chicago.*
Ploetz, William Ernst,	*Sheyboygan, Wis.*

Prentice, Samuel George,	*Chicago.*
Prominski, Victor Henry,	*Chicago.*
Rains, Ernest Kingdom,	*Chicago.*
Rambo, John Myron,	*La Moille.*
Ratajik, Felix James,	*Chicago.*
Rimsa, Jerry Edward,	*Chicago.*
Rosenbaum, Frank Albert,	*Chicago.*
Rosenstone, Rutherford Gustavus,	*Cambridge.*
Roth, Victor,	*Chicago.*
Rouleau, Francis Joseph,	*Manteno.*
Rummerfield, Larry Lewis,	*Rockport, Mo.*
Ruth, Grove Helmer,	*Lakefield, Minn.*
Sammarco, Nestore,	*Chicago.*
Savoie, Felice John,	*Gilman.*
Schereschewsky, Rudolph,	*Chicago.*
Schindel, Edmund,	*Aurora.*
Schmid, Rose Phillipus,	*Chicago.*
Schneider, John Henry,	*Dubuque, Ia.*
Schnitzler, Stephan,	*Chicago.*
Schroeder, Otto Albert,	*Palatine.*
Sherman, Lewis John,	*Chicago.*
Shipsman, Charles,	*Chicago.*
Sisk, John Edgar,	*Marion.*
Smith, Ellis Glen,	*Bloomington.*
Smith, Halley Ambrose,	*Antioch.*
Spencer, William Smith,	*Chicago.*
Staniforth, George F,	*Chicago.*
Starshak, Alphonse Leon,	*Chicago.*
Stein, Sigmund,	*Chicago.*
Streit, Joseph Clemence,	*Chicago.*
Stocks, Robert Harvey,	*Chicago.*
Stoeffhaas, Otto,	*Chicago.*
Strzoda, Robert Aloysius,	*Chicago.*
Stulik, Charles,	*Chicago.*
Sughrua, Thomas Joseph,	*Chicago.*
Talmage, Nathan,	*Chicago.*
Terrell, Edward,	*Chicago.*
Tetu, Frank Joseph,	*Chicago.*
Thompson, Milton White,	*Homer.*
Tomashek, Frank Edmund,	*Chicago.*
Trachman, Charles,	*Joliet.*

Transeau, William Ray,	*Ransom.*
Tremblay, Edward George,	*Chicago.*
Tugwell, Richard John, Jr.,	*Maywood.*
Turalski, Walter Joseph,	*Chicago.*
Tyrell, Frank Joseph,	*Chicago.*
Underriner, Harry Aloys,	*Effingham.*
Valentine, Clarence Leslie,	*Aurora.*
Van Dusen, Richard,	*Allegan, Mich.*
Venn, Henry Leonard, A.B., (*St. Ignatius College,*) 1906,	*Chicago.*
Veseley, Anton Victor,	*Chicago.*
Voss, George Kimmel,	*DuQuoin.*
Wall, Warren Aurand,	*Elkhart, Ind.*
Walter, Charles Elmer,	*Aledo.*
Waterman, Ben Colby,	*Kilburn City, Wis.*
Watson, Daniel Clark,	*St. George, Utah.*
Webb, Thomas Edward,	*Warren, O.*
Webster, Claude Augustine,	*Benton.*
Wendt, John Frederick,	*Huntley.*
Wenigman, Paul, Jr.,	*Chicago.*
Wester, Gustav Adolph,	*Chicago.*
Wheeler, Roy,	*Chicago.*
Wiehn, John William,	*Westchester, N. Y.*
Williamson, Melville Enoch,	*Chicago.*
Winborn, Elmer Norris,	*Detroit, Mich.*
Woltersdorf, Oscar,	*Chicago.*
Zimmermann, Clemence,	*Peoria.*
Zito, Rocco,	*Chicago.*
Zur, Victor Edward,	*Chicago.*

SPECIAL

Cassin, Elmer Eldorado, Ph.G., 1907,	*Ogden, Utah.*

ACADEMY

Abrams, Mrs. Hannah,	*Chicago.*
Acar, Herbert Augustus,	*Medina, N. Y.*
Adams, Eli David,	*Shumway.*
Allen, Norwin Louis,	*Paducah, Ky.*
Alsfelder, Ferd,	*Urbana.*
Andresen, Herman John,	*Chicago.*

Arnett, Leslie Y,	*Erie.*
Arthur, Ross Conklin,	*Streator.*
Audrain, Frederick Manar,	*Roswell, N. M.*
Babb, Charles,	*Cissna Park.*
Baltzer, Earl Clingmian,	*Dakota.*
Barbour, Waldo Emerson,	*Springfield.*
Barricklow, Elmer Jesse,	*Frankfort, Ind.*
Batterman, Herman E,	*Chicago Heights.*
Baum, Floyd William,	*Champaign.*
Becker, Walter Charles,	*Quincy.*
Bell, James Forrest,	*Salem.*
Bennett, George,	*Urbana.*
Benson, Glenn Robert,	*Lamville.*
Blim, Charles Hewes,	*Crete.*
Blim, Warren Caldwell,	*Crete.*
Boyd, Elmer Louis,	*Norris City.*
Boyd, Helen,	*Norris City.*
Boyd, Leland Edwin,	*Norris City.*
Bradley, Eugene Patrick,	*St. Louis, Mo.*
Bradley, Eugenia,	*Loda.*
Bramon, Olive Ruth,	*Urbana.*
Brant, Jennie Blanche,	*Bushnell.*
Brantingham, Raymond Brice, Jr.,	*Chicago.*
Branmiller, Edna,	*Deland.*
Bremer, Lawrence Harlan,	*Chicago.*
Brooks, Charles Franklin,	*Urbana.*
Brooks, Frances,	*Urbana.*
Brown, Frank Earl,	*Chicago.*
Brown, James Fearon,	*Urbana.*
Brown, Paul Donald,	*Chicago.*
Browne, Cyril,	*Waukegan.*
Buerkin, Edwin,	*Quincy.*
Bullwinkle, Benjamin,	*Chicago.*
Burling, Harold Dodge,	*Chicago.*
Burnett, Burch Wesley,	*St. Paul, Minn.*
Butzer, Frank Roos,	*Hillsdale.*
Butzer, Glen Douglas,	*Hillsdale.*
Cain, Patrick Clement,	*Wyoming.*
Callahan, Harry Eusnitt,	*Danville.*
Callery, Frank,	*Princeville.*
Calverly, James Earl,	*Mt. Carmel.*

Campbell, Marvin,	*Paris.*
Campbell, Ralph Lee,	*Peoria.*
Carroll, Lee Joseph,	*Chicago.*
Carter, Samuel Carroll,	*Waverly.*
Casserly, Joseph Bernard,	*Champaign.*
Cassingham, Roy Burns,	*Champaign.*
Caughlan, Ralph,	*East St. Louis.*
Challacombe, Lorena May,	*Challacombe.*
Chalmers, Thomas,	*Peoria.*
Churchill, Leland Aurelius,	*Shelbyville, Ind.*
Cline, Menzo Dunlap,	*Martinsville.*
Clink, William Noel,	*Dix.*
Coffman, Roy Alfred,	*Blandinsville.*
Cofoid, Bessie Lillian,	*Tonica.*
Collins, Roy Taylor,	*Rock Island.*
Combe, Ella Marie,	*Highland.*
Comstock, Fred,	*Carbondale.*
Cooper, Horace Turner,	*Canton.*
Corbin, Carl,	*Urbana.*
Corboy, William Joseph,	*Chicago.*
Cox, Margaret Agnes,	*Urbana.*
Crary, Charles Wilbur,	*Hoopeston.*
Crawford, Nellie Florence,	*Champaign.*
Crawford, Ruth Elizabeth,	*Maroa.*
Cross, Lyman,	*Taylorville.*
Crouch, Walker Medley,	*Belleprairie.*
Cushing, Charles Farwell,	*Mt. Morris.*
Dahl, Charles,	*Chicago.*
Dalbey, Everett Leslie,	*Muncie.*
Daly, Samuel Lester,	*Metropolis.*
Danforth, Ralph,	*Chicago.*
Darden, Jesse,	*Memphis, Tenn.*
Darter, William Alexander,	*Fort Worth, Tex.*
Davis, Mallie Leona,	*Fairmount.*
Dean, Jessie Luella,	*Carthage.*
DeMott, Irving Polhemus,	*Crookston, Minn.*
DeMott, Roy Van Liew,	*Crookston, Minn.*
Dernbach, William Adam,	*Chicago.*
Derry, Herbert Glenn,	*Vermont.*
Dick, Harry Kimball,	*Bloomington.*
Diebold, Ralph Edgar,	*Manasquan, N. Y.*

Dorsey, Otis Bond,	*Perry.*
Downey, Thornton Edgar,	*Wellington.*
Drake, Edwin Louis,	*Urbana.*
Dunn, Enis Merlyn,	*Aledo.*
Duval, Merritt Henry,	*Elgin.*
Dyer, Charles Furnass,	*Hoopeston.*
Eels, Leon Franklin,	*Winslow.*
Ehrgott, Grover Cleveland,	*Quincy.*
Elliott, Hazel,	*Urbana.*
Engehardt, John Henry August,	*Urbana.*
English, Fred Walter,	*Champaign.*
Eninger, Frederick Burton,	*Champaign.*
Eoff, Earl,	*Greenup.*
Erlbacher, Frederick Leonard,	*Morris.*
Espinosa, Miguel Elenes,	*Fopia, Mex.*
Evans, Arthur Thompson,	*Wallington.*
Farnam, Earl Leroy,	*Pawnee.*
Farnam, Eva May,	*Pawnee.*
Fedde, Harry,	*Peotone.*
Ferguson, Charles Sibley,	*Oak Park.*
Fisher, George Harry,	*Urbana.*
Fisk, Wooster Hayden,	*North Powder, Ore.*
Fitzwater, Daisy Ann Rebecca,	*Champaign.*
Fort, Lyman Marion,	*Stronghurst.*
Gage, William John Jr.,	*Champaign.*
Garvey, Clella May,	*Illiopolis.*
Genther, Otto Robert,	*Mokena.*
Gilfillan, Kent Rowell,	*Kewanee.*
Glandon, Herbert,	*Brooklyn.*
Glenn, Grace,	*Champaign.*
Goodall, Joseph Winfield,	*Peru, Ind.*
Gossett, Irene,	*Urbana.*
Graham, Henry Hugh,	*Evanston.*
Grannis, George Paul,	*Chicago.*
Green, Bertha,	*Ivesdale.*
Griffith, Ambrose,	*Elburn.*
Guerrero, Angel,	*Washington, D. C.*
Hadley, Thomas Alva,	*Sullivan.*
Hainds, Roy,	*Kewanee.*
Hall, Mabel Darling,	*La Moille.*
Hampton, Amy Irwin,	*Muscatine, Ia.*

Hand, Fred Chillian,	*Champaign.*
Hardin, Roscoe,	*Hardinsville.*
Harris, Karl Merritt,	*Uvalde, Tex.*
Harshbarger, Ernest Mason,	*Ivesdale.*
Hassler, Herbert Deville,	*Urbana.*
Hay, Henry Collins,	*Urbana.*
Hayes, Dale Irwin,	*Rock Island.*
Head, Augustine William,	*East Alton.*
Heap, William Colby,	*Chicago.*
Hecker, Morris Littlefield,	*Morrison.*
Heinbeck, Herman,	*Rock Island.*
Helt, Harry Clifford,	*Indianapolis, Ind.*
Henderson, Byron Gladys,	*Chicago.*
Henderson, Hugh,	*Ridge Farm.*
Herndon, John Carroll,	*Rochester.*
Hicks, William Ellsworth,	*Hardinville.*
Hill, Charles Nelson,	*Champaign.*
Hill, Jessie Ferrell,	*Urbana.*
Hill, Lucy Bell,	*Urbana.*
Hirtzel, Clara Lillian,	*Effingham.*
Hiserodt, William Webb,	*Urbana.*
Hoisington, Alice Roxy,	*Walshville.*
Hopkins, Deane,	*Racine, Wis.*
Hopkins, Harry Ward,	*Champaign.*
Hopkins, Newton Webb,	*Chicago.*
Howard, Mary Miranda,	*Champaign.*
Hudson, Alvin Nay,	*Vandalia.*
Huff, Charles Richey,	*Des Moines, Ia.*
Huff, Norval,	*Urbana.*
Hutchinson, Ethel Katherine,	*Urbana.*
Hutson, Louisa Jane,	*Benton.*
Hutton, Malcolm Lee,	*Elizabeth.*
Iben, Reinhard,	*Peoria.*
Janssen, Theodore,	*Freeport.*
Jauregni, Mariano,	*Clulmalma, Mex.*
Jenkins, Griffith Aebli,	*Grand Tower.*
Johnson, Alfred Henry,	*Carrollton.*
Johnston, Harry Wilson,	*Danvers.*
Jolly, Wesley Parvin,	*Lake, Ind.*
Jones, Jesse Karl,	*Dewey.*
Jones, Rupert Forrest,	*Springfield.*

Jordan, James Denney,	*Gifford, Ind.*
Kane, Kent Kintzing,	*Pinckneyville.*
Karcher, Frank Joseph,	*Herscher.*
Karsten, Paul,	*Urbana.*
Kastel, Thomas Jefferson,	*Monticello.*
Keenan, Joseph,	*LeRoy.*
Kegley, Mamie E,	*Urbana.*
Kellogg, Clyde Whitney,	*Chicago.*
Kelso, Herschel,	*Thomasboro.*
Kempf, George Arthur,	*Chicago.*
Kennan, Charles Marshall,	*Maysville, Ky.*
Kent, Lee Carson,	*Gridley.*
Kinzie, Marion Tanguy,	*Hoover, Ind.*
Kirkwood, Thomas,	*Lawrenceville.*
Kivel, Ulysses Kivel,	*Paducah, Ky.*
Konantz, Ralph Harris,	*Quincy.*
Lancaster, Raymond,	*Champaign.*
Lasswell, William Sturgis,	*Springfield.*
Lawless, Joe Conrad,	*Bowen.*
Leavitt, Herbert Audrey,	*Hammond.*
Leffler, Paul Eugene,	*La Grange.*
Leman, Edwin Daniel,	*Shreveport, La.*
Lindstrom, Arthur William,	*Varna.*
Locke, Harry Ross,	*Blandinsville.*
Loucks, Ray John William,	*Urbana.*
Lowell, Joseph Reed,	*Washington, D. C.*
McCaddon, Frank,	*Champaign.*
McClain, Dayle C,	*Urbana.*
McConnell, Andrew Henry,	*Hagerman, N. M.*
McGill, Charles Clement,	*Lebanon, Ky.*
McKee, Thomas William,	*St. Clair, Mo.*
McKim, Wilson Moran,	*Tokio, Japan.*
McNamee, William Morrow,	*Chicago.*
McQuaid, John Joseph,	*Champaign.*
Martin, Reese Sargent,	*Oakland.*
Mathers, Leslie,	*Momence.*
Mathers, Manley,	*Momence.*
Mattoon, Charlotte,	*Champaign.*
Merner, Arthur Frederick,	*Chicago.*
Merry, Dean Stone,	*Urbana.*
Metzler, Clarence Wilma,	*Shumway.*

Meyer, Henry Ernest,	*Morrison.*
Mickener, Harry J,	*Homer.*
Miller, Harry James,	*Ivesdale.*
Moreland, Carl Boatman,	*Farmer City.*
Munroe, Frank Brown,	*River Forest.*
Murphy, William Ignatus,	*Champaign.*
Nelson, Idris,	*Canton.*
Nelson, Peter,	*De Kalb.*
Oakes, Anna May,	*Laura.*
O'Donnell, Pierre James,	*Medina, N. Y.*
Ogata, Louis Ichize,	*Kumanoto, Japan.*
O'Hern, Guy,	*Augustine.*
Otis, Spencer, Jr.,	*Chicago.*
Parkinson, Fred Edward,	*Mt. Carmel.*
Penrod, Alex Gustavus,	*Carbondale.*
Perez, Carlos,	*Saltillo, Mexico.*
Phares, Bertha,	*St. Joseph.*
Phares, May Josephine.	*St. Joseph.*
Phillips, Fay Mills,	*Urbana.*
Piper, Clark Culbertson,	*Sumner.*
Piper, Harry Bruce,	*Sumner.*
Plummer, Elizabeth,	*Champaign.*
Pointer, Lewis Howard,	*So. Boston, Va.*
Ponder, Wilma Edith,	*Hammond.*
Ponder, Wilbur Homer,	*Urbana.*
Poston, Edmon Didlake,	*Springfield.*
Primm, James Kelley,	*Urbana.*
Rankin, Earle,	*Vermont.*
Reed, Oran Wilson,	*Robinson.*
Reed, Wayne Frank,	*Natalbarry, La.*
Rich, Roy Harrison,	*Springfield.*
Richards, Keene,	*Chicago.*
Roane, Florence Pearl,	*Opdyke.*
Roane, Howard Earle,	*Opdyke.*
Robertson, Joseph Douglas,	*Palatine.*
Robinson, Benjamin Franklin,	*Urbana.*
Robinson, Florence Elinor,	*Urbana.*
Rooth, Carrie Lee,	*Joy.*
Roff, Pearl Iola,	*Carlock.*
Rundles, Earle,	*Hunter Town, Ind.*
Runkel, Homer,	*Greenup.*

Sabel, Walter,	*Evansville, Ind.*
Schaller, Robert Herman,	*Mendota.*
Schoettler, Arthur Carl,	*Belleville, Ind.*
Schoomaker, Martin Fay,	*Reynolds.*
Schrodt, John Robert,	*Kingsbury.*
Schueler, Julian Louis.	*Peoria.*
Schumacher, Shirley Clevis,	*Rockport, Ind.*
Schweiger, Walter Oscar,	*Urbana.*
Scott, Neva Augusta,	*Charleston.*
Seed, Oscar Vernon,	*Lawrenceville.*
Seigfried, Ernest,	*Carthage.*
Shapland, Earl Page,	*Saunemin.*
Shinker, Rose Elizabeth,	*Des Moines, Ia.*
Sibbitt, James Harrison,	*Hoopeston.*
Smith, Clarence Gilbert,	*Shelby, Mich.*
Smith, Gilbert Reuben,	*Illiopolis.*
Smith, Jesse Theodore,	*Kankakee.*
Smith, Milton David,	*Chicago.*
Smith, Townsend Beverly,	*Evanston.*
Snyder, Alden Eugene,	*Kankakee.*
Snyder, Leslie,	*Galesburg.*
Stafford, Jonas Clyde,	*Champaign.*
Stark, John Edwin,	*Urbana.*
Steinbreder, William John,	*St. Louis, Mo.*
Stephens, Carl,	*Champaign.*
Stephenson, Ethel Clare,	*Urbana.*
Stewart, Charles Hoaglan,	*Godfrey.*
Stone, Romaine Wilkinson,	*Chicago.*
Sturm, Milton Leo,	*Decatur.*
Swank, Olive,	*Champaign.*
Swanson, Claude Magnus,	*Ludlow.*
Swearingen, Lellia Fern,	*Champaign.*
Swent, James Waterman,	*Oakland, Cal.*
Tarbell, Fred Foote,	*South Bend, Ind.*
Terrill, Earl,	*Colchester.*
Tibbetts, Robert Keith,	*Highland.*
Todtman, Harry George,	*Chicago.*
Trimble, Robert Malcolm,	*Urbana.*
Truman, Fern,	*Urbana.*
Truman, Jonathan Hall, Jr.,	*Bushnell.*
Tucker, William Benjamin,	*Boston, Mo.*

Vantuyle, Robert,	*Manchester.*
Vasen, George Benjamin,	*Quincy.*
Volden, Edward Orville,	*Elliott.*
Wade, Benjamin Franklin,	*Chenoa.*
Walker, Hugh Jesse,	*Stipman.*
Walker, Robert Allyn,	*Herrin.*
Wallace, Grant Vail,	*Fair Oaks, Cal.*
Wand, Anthony William,	*Elizabeth.*
Wansborough, Robert,	*Peoria.*
Watson, Minton William,	*Aquascalientes, Mex.*
Watson, Raymond Carl,	*Champaign.*
Webb, Ruth Chase,	*Urbana.*
Weber, Walter Harvey,	*Tower Hill.*
Weger, John Edgar,	*Lawrenceville.*
Wellman, Viola Maud,	*Champaign.*
Welsh, Don Miller,	*Hutchinson, Kan.*
White, Herman Tilton,	*Salem.*
White, John Wilson,	*Salem.*
White, Robert Lee,	*Fairmount.*
Whittaker, Harry,	*Lawrenceville.*
Wild, Harry,	*Gilmore.*
Wiley, James Elmo,	*Colfax.*
Willey, Fred,	*Norris.*
Wolfe, William Sydney,	*Urbana.*
Wood, Asher Giles,	*Urbana.*
Woodward, Warren Crooke,	*Evanston.*
Woolman, Collett Everman,	*Urbana.*
Wright, Bertha Belle,	*Champaign.*
Wright, John Edward,	*Herscher.*
Wyeth, Paul Jones,	*Tuscola.*
Wyeth, William Edward,	*Tuscola.*
Ziegler, Mila,	*Urbana.*

SPECIALS IN MUSIC

Alberts, Dorothy Alvena,	*Champaign.*
Amsbury, Harlow Aydelott,	*Champaign.*
Anderson, Elma Myrtle,	*Sadorus.*
Baird, Ethel May,	*Urbana.*
Bennett, Louise Nancy,	*Urbana.*
Brown, Ollie May,	*Champaign.*

Busey, Carrie Mary,	*Champaign.*
Busey, Littie Louise,	*Urbana.*
Castle, Ora Blanche,	*Urbana.*
Castle, Richard Lloyd,	*Urbana.*
Castle, Russell D,	*Urbana.*
Chadwick, Frances Ione,	*Urbana.*
Davenport, Margaret,	*Champaign.*
Davis, Mollie Leona,	*Fairmount.*
Drew, Elva Elizabeth,	*Atwood.*
Drew, Vivian Oneontea,	*Atwood.*
Eichhorst, Flossie Edna,	*Champaign.*
Evans, Harriet,	*Urbana.*
Faught, Miss Donald Davidson,	*Altamont.*
Fitzwater, Imogene Fern,	*Shelbyville.*
Frizinger, Claude Thomas,	*Urbana.*
Gehrke, Lillie Elsie,	*Champaign.*
Gere, Rollin Chester,	*Urbana.*
Gibbert, Gertrude Victorius,	*Champaign.*
Hall, Ray Harvey,	*Homer.*
Holmes, Clara Bee,	*Urbana.*
Huff, Byron,	*Champaign.*
Jervis, Florence May,	*Champaign.*
Jones, Margaret,	*Urbana.*
Judd, Mollie Blanche,	*Wenona.*
Kern, Emma Ruth,	*Ridge Farm.*
Lancaster, Elsie May,	*Champaign.*
Le Neve, Emelyn Faye,	*Rossville.*
Linton, Ruth,	*Lewistown.*
McGee, Edna Amelia,	*St. Joseph.*
Mackey, Sady Eleanor,	*Streator.*
Merry, Elda Maud,	*Urbana.*
Miles, Ruth Columbia,	*Urbana.*
Moser, Olga Fern,	*Sigel.*
Mulliken, Maude Edith,	*Seymour.*
Nathan, May,	*Villa Grove.*
Overend, Lester Edwin,	*Edelstein.*
Patten, Daisy Delpha,	*Urbana.*
Pruitt, Florence Maude,	*Urbana.*
Righter, Nellie Pauline,	*Champaign.*
Saffell, Gladys De Forrest,	*Urbana.*
Scott, Hazel Charlotte,	*Champaign.*

Shuck, Fred Vinton,	*Urbana.*
Skinner, Arthur Manford Roy,	*Champaign.*
Smith, David Mervin,	*Urbana.*
Snyder, Letha,	*Champaign.*
Stolle, Ida Josephine,	*Urbana.*
Stoner, Mabel Edith,	*Burnside.*
Strong, Estella Deette,	*Champaign.*
Swearingen, Jennie Lois,	*Urbana.*
Voss, Anna,	*Champaign.*
Waggoner, Horace Gailen,	*Urbana.*
Waggoner, Stanley Loren,	*Urbana.*
Wentd, Clara Ida,	*Champaign.*
White, Sarah Kellogg,	*St. Joseph, Mo.*
Wood, Dorothy Ann,	*Urbana.*

	Men.	*Women.*	*Total.*
GRADUATE SCHOOL	160	43	203
UNDER GRADUATE COLLEGES—			
Seniors	259	134	393
Juniors	333	100	433
Sophomores	512	112	624
Freshmen	778	194	972
Specials	295	95	390
	2177	635	2812
SUMMER SESSION	333	222	555
Remained, counted above	133	55	188
	200	167	367
COLLEGE OF LAW—			
Third year	30	...	30
Second year	44	...	44
First year	79	1	80
Specials	32	...	32
	185	1	186
COLLEGE OF MEDICINE—			
Seniors	153	12	165
Juniors	106	9	115
Sophomores	86	4	90
Freshmen	79	7	86
Unclassified	16	4	20
	440	36	476
COLLEGE OF DENTISTRY—			
Seniors	35	1	36
Juniors	13	1	14
Freshmen	26	...	26
	74	2	76
SCHOOL OF PHARMACY—			
Seniors	64	...	64
Juniors	191	3	194
Specials	1	...	1
	256	3	259
	3492	887	4379
Deduct counted twice	13	...	13
	3479	887	4366
ACADEMY	273	104	377
Total in University	3752	991	4743

UNDERGRADUATES BY COLLEGES, SCHOOLS, AND CLASSES

	Sen.	Jun.	Soph.	Fresh.	Sp.	Total
Lit. and Arts	97	131	179	299	54	760
Engineering	155	200	313	463	56	1187
Science	51	48	52	103	8	262
Agriculture	44	51	72	98	221	486
Library	45	....	....	....	....	45
Music	1	3	8	9	51	72
Total	393	433	624	972	390	2812

DEGREES

Commencement Day, June 12, 1907, degrees were conferred as follows:

A.B.

Ghloe Merri Apple.
Maud Gertrude Armstrong.
Leo Preston Baird.
Cecil Franklin Baker, B.S., 1907.
Howard Newell Baker, M.D.
Eva Balch.
Thomas Morse Barger.
William Floyd Barnett.
Ada Jane Barter.
Eleanor Mahan Beardsley.
James Peter Beck.
Oscar William Beckemeyer.
Claude Belts.
Ethel Bond.
Ora Littlefield Born.
Sudhindra Bose.
Nellie Uree Branch.
Lemma Cornelia Broadhead.
Ruth Elizabeth Brown.
Florence Wingfield Bullock.
Edna Burnham.
Albert Harvey Burton.
Alta Achsah Charles.
Jennette Stewart Chesnut.
Albert Barnes Clark, Jr.
Dennis Albert Clingan.
Emma Brown Connelly.
Philip A Crihfield.
Ethel Crum.
Lloyd Slate Dancey.
Nell Sarella McMillen Davis.
Edna Leila Dillon.
Nellie Mabel Dixon.
Helen Mary Eaton.
Jacob Christian Eberspacher.
Emma Lodema Ehly.
Lena Enlow.
Thomas Reuben Ernest.
Clara May Fallon.
Alice Evelyn Fullenwider.
Charles Milburne Gash.
Wilhelmina Holley Gentsch.
Thomas Edward Gill.
Eleanor Mae Glenn.
Bessie Rose Green.
Margaret Grace Greenman.
Alta Gwinn.
Janet Alletta Hall.
Roberta Louise Hanna.
Bessie Maye Harvey.
Ralph S Hawley.
Mabel Annie Hazelton.
Roy Raymond Helm.
Lora Atkins Henion.
Lottie Hess.
Herman Carl Martin Hildebrandt.
Alice Howe
Sarah Maltilda Hummel.

E Glenne Hunt.
Jasper Newton Hunt, Jr.
Louise Marie Huse.
Claire Elwood Hutchin.
Daisy Dell Irwin.
Katherine Belle Jervis.
Wallace Franklin Jones
Viola Martin Kampf.
Fred Crosby Keeler.
Elmer S Lake.
Ina Oliva Lapham.
Mary Howard Lee.
Ethel Lendrum.
Byron Ray Lewis.
Roger Frank Little.
Nellie Alice Loomis.
Jessie Rudisill Lowry.
Frederick R McCullough.
Will Johnson McFarland.
Ruhama Louise McIntyre.
Sarah Davina MacKay.
Eva May McKinnie.
Edna Mildred McLaughlin.
Alice Emily Maddock.
Chester Arthur Marshall.
John Everett Marvel.
Jane Maria Mather.
Chester Branch Miller.
Mabel D Moore.
Charles Taylor Moss.
Glen Hawthorne Mullin.
Elmer James Myers.
Anice Eunice Nichol.
Carrie Belle Norton.
Maud Edna Parsons.
John Lossen Pricer.
Adela Lydia Caroline Peine.
Charles Stephen Pillsbury.
Lawrence Clement Powers.
Charles Carroll Reardon.
Clarence Henry Reardon.
Daniel Homer Rich.
Norman Sumner Robertson.
Roy Van Ross.
Jessie Ryan.
Miriam Elsie Scott.
Imogene Shade.
Hazel Yearsley Shaw.
Jerome Kenneth Simer.
Florence Barbara Somers.
Florence Olive Sprague.
Mary Katherine Swartz.
Maurice Cole Tanquary.
Inez Thissell.
Carl Clinton Van Doren.
Harry Walter Vanneman.
Maurice Eschner Vasen.
Nathan Ruthven Wakefield, Jr.
Ralph Core Jennings Wallace.
Bertha Evelyn Walters.
Henry Ben Pope Ward.
Charles Eugene Waterhouse.
Howard Grafton Weakley.
Nelle Frances Welles.
Mary Stanclyffe Wilkinson.
Anna Waller Williams.
John Dean Wilson.
Lester Roy Wilson.
Harry Woodham.
Ruth Eleanor Work.
Jeannette Lamb Worthen.
Helen Gertrude Wright.
William Price Wright.
Charles Walter Yeck.

B.S.

Fred Eaton Allen.
Burt Thompson Anderson.
John William Andree.
Arthur Ward Archer.

Arlow J Argraves.
Clem C Austin.
Francis Cyrus Bagby.
Orrin Hugh Baker.
Ray Luzerne Baker.
John Dudley Ball.
George Horton Ballantyne.
Harry Haughey Barber.
Walter Edmund Barton.
Arthur Norton Bennett.
Charles Howard Bent.
Charles Hugh Bethel.
George Frederick Beyer.
William Black.
Walter Robert Block.
Frank Lyman Bodwell.
Hugh Thomas Boon.
William Emery Brewer.
Richard Abner Brooks.
Earl Clarence Brown.
Ralph Marks Burkhalter.
Deane Burns.
Howard Blaine Bushnell.
Edwin Walker Buxton.
Edwin Fletcher Caldwell.
John Albert Callan.
Russell Thornhill Calloway.
Augustus Bacon Casey.
Jerome Cermak.
Ralph Edward Chambers.
Edward Everett Chester.
Robert Hodge Clanahan.
Clyde Bestor Coleman.
Louis Phillips Cook.
Allen Burton Cooke.
Fred Augustus Cox.
John Andrew Dailey.
Samuel Garnett David.
John June Davis.
Carl Rankin Dick.
Townsend Foster Dodd.
Frank Lyle Donigan.
Frank Joseph Donnersberger.
Floyd Everett Dougherty.
Lynn Amos Drew.
Willard Leo Egy.
Hiram Washburn Elliott.
John Franklin Ervin.
Edwin Rawden Evans.
John Marcus Evvard.
Roscoe Farrar.
Stanley Prince Farwell.
Leroy Clark Ferry.
William Sidney Ford.
Chester Alva Foreman.
Perry John Freeman.
Herman Henry Fricke.
Robert Owen Friend.
Frederick William Frye.
Stanley Worcester Galhuly.
William James Galloway.
Harry Clifton Gardner.
Lloyd Garrison.
Charles Bayard Gibbons.
Forrest Linn Gibbs.
Portia Eunice Gilkerson.
Arturo V Gonzalez.
Donald Graham.
Sylvester Henry Grauten.
Sidney Grear.
Moses Greenleaf.
Walter Gay Grierson.
Alexander Hunter Gunn.
Axel Ferdinand Gustafson.
Michael Edward Hagan.
Harry Gray Hake.
Ellis Bernard Hall.
Quincy Allen Hall.
Frederick Edward Hanke.
Ivan Guy Harmon.
Joseph Milton Harnit.
Bertha May Harper.

Howard Charles Haungs.
Augustus Washington Hayes.
Nelson William Hepburn.
Allen Leet Higgins.
John Harmon Hinman.
Charles Edward Hoff.
Frank Gordon Hoffman.
Vernon Leo Hollister.
Leslie Dillon Howell.
Harold DeMott Hughes.
Ward Louis Hull.
Adam Albert Hummel.
William Grandville Hummel.
Harry Paul Humphreys.
Walter Henry Huth.
Ernst Otto Jacob.
Carl James.
Trygve Jensen.
Richard Dale Jessup.
Ernest Hungerford Johnston.
Harold Pratt Joy.
John Oscar Kammerman.
Myron Avery Kendall.
Josephine Kerr.
Leon Browning Kinsey.
Willard Alfred Knapp.
Louis Solliday Knorr.
Jean Howard Knox.
Alfred Richard Koch.
Alonzo Plumsted Kratz.
Robert Sherman Larimer.
Weston Bross Lazear.
Wilfred Lewis.
Chester R Logan.
Louis Valentine Logeman.
Francis Solon Luney.
Laurence Justin McCarty.
Earl Wyeth McConoughey.
James Franklin McIntire.
Frank Hotchkiss McKelvey.
James William McManis.
Wilbur Clinton Maddox.
Josiah Main.
Frank Bierce Maltby, Class of '82.
David Thaddeus Marks.
John Linton Martin.
Wymer Washington Maxwell.
Charles Leo Meharry.
Harold Thomas Emmett Merritt.
John Frederick Meyer, Jr.
Roy Austin Miller.
John McCuen Mills.
Martin Laurence Millspaugh.
J Howard Miner.
Louis Conway Moore.
Samuel Burns Moore.
Levi Mosiman.
Charles Robert Moulton.
Clyde Leroy Mowder.
Grover Robert Mueller.
Jacob Clark Nelson.
Joseph Nicolay Nielson.
Clarence Eugene Noerenberg.
John Nydegger.
Charles Hubert Oathout.
Frank Wilbur Padfield.
Carlos Merriam Page.
Dwight Comstock Parks.
Harry Spencer Peck.
Guy Derrick Phillips.
Alfred Peter Poorman.
Forrest Allen Pruitt.
James Randall.
Arthur Evans Ray.
Arthur Jay Ray.
Ernest Hunter Reynolds.
Frank Howard Reynolds.
William Haddon Richardson.
Franklin Griffith Rogers.
Charles Albert Rump.
Alfred Harvey St. John.
Harry Savidge.

Albert James Schafmayer.
Alwin Louis Schaller.
Joseph William Schertz.
Herman Albert Scholz.
William Frederick Schroeder.
Louis Gustav Schumacher.
James Robinson Scott, Jr.
William Renick Scott.
Henry Roscoe Shade.
Lawrence Edwin Sinclair.
Robert Hugh Sloane.
Joseph Anton Smejkal, Jr.
Claude Everett Smith.
Sidney Benjamin Smith.
William Walter Smith, A.B., 1900.
John Clyde Spitler.
Earl Downing Stearns.
Annie Nicewander Stevenson.
Walter Morgan Stewart.
Marshall Childs Stookey.
Halver Rufus Straight.
James Albert Strawn.
George Mauritz Strombeck.
Elmer Emerson Stults.
Vincent Westfall Switzer.
Edward Romaine Tarnoski.
Paul Thaddeus Tarnoski.
Fred Coe Taylor.
Emmet Collins Thompson.
Fred Newton Thomson.
Charles Herman Tornquist.
Theodore Herman Trams.
Merle Jay Trees.
Henry George Treichel.
Edna Truman.
Albert Alexander Van Petten.
Richard James Francis Wall.
Owen Martin Ward.
Frank Marshall Welch.
Porter Royal West.
Curtis Cornelius Westfall.
Fred H White.
Edson Alexander Wilder.
Clement Clarence Williams.
Djalma Downey Williams
George Annis Williams.
Ernest Clair Woodin.
Raymond Cliff Yant.
John William Yates.
Fred Drinkwater Yeaton.
Dwayne Glover Young.
Jacob Frank Simpson Ziegler.

LL.B.

William Albert Doss.
William Clayton Ewan.
James Edwin Filson.
Matt Fowler, LL.B.
Moody Gannaway.
John C Lawyer.
Herbert Frederick Lill.
Benjamin Hull Matthews.
Harvey Leon Melton.
Robert Millsaps.
William Gay Palmer, A.M., 1901.
Lorrain Nicolas Perrin.
Lin William Price.
Kile Edward Rowand.
Amos Potter Scruggs.
Will Kenneth Skinner.
Fred Merwyn Staker.
William Elmer Whiteside.
John Guy Wilson, A.B., 1904.

B.L.S.

Litta Celia Banschbach, A.B., 1906.
Elizabeth Helen Burnside.
Frances Marguerite Feind, A.B., 1906.
Valeria Johnston Fetterman, A.B., 1900.
Alice Sarah Johnson.
Elizabeth Belle McKnight, A.B., 1905.
Eva Isabelle McMahon.
Agnes Elaine Nichol, A.B., 1906.
Myra Belle O'Brien, A.B., 1899.
Mabel Kingsley Richardson, A.B., 1902.
Nina Rebecca Shaffer, Ph.B., 1899.
Edith Lillian Spray.
Hilda Kirke White, A.B., 1905.
Lucy Parke Williams, B.S., 1906.
Bess Everett Wilson.

Ph.D.

Edward Murray East, M.S., 1904.

A.M.

May Allinson, A.B., 1906.
Perry Barker, A.B., 1904.
James Theophilus Barrett, A.B., 1903.
Helen Elizabeth Bullard, A.B., 1905.
Lois Irene Burwash, A.B., 1906.
Angie Ray Clark, A.B., 1904.
William Arthur Clark, A.B., 1905.
Bertha Loftin Empey, AB., 1906.
Lloyd Goble, M.S., 1896.
Nain Delf Hamilton, A.B., 1902.
Paul Edward Howe, A.B., 1906.
David Klein, A.B., 1906.
Gustave August Kramer, A.B., 1905.
Justa Morris Lindgren, A.B., 1902.
Roscoe Conkling Main, A.B., 1906.
John Lossen Pricer, A.B., 1907.
Walter John Risley, B.S., 1900.
William Henry Smith, A.B., 1906.
Ben Tomlinson, A.B., 1906.
Effie May Tull, A.B., 1901.
Ruth Aimee Wardall, A.B., 1903.
Louis Dwight Harvell Weld, A.B., 1905.
Cornelia Ethel Wood, A.B., 1903.

M.S.

Howard Brown Berry, B.S., 1906.
Edward Otto Heuse, B.S., 1900.
Herbert Andrew Hopper, B.S.A., 1903.
Donald S Miller, B.S., 1906.
Rufus Chancey Obrecht, B.S.A., 1901.
Richard Herman Williams, B.S.A., 1905.

C.E.

Ralph Hawes Gage, B.S., 1902. Lawrence Gilbert Parker, B.S., 1902.
Frederick William Honens, B.S., 1896.

E.E.

Milton Kent Akers, B.S., 1905.

M.E.

Edwin Gardner Greenman, Jr., B.S., 1902. Charles Dutton Terry, B.S., 1897.

At the commencement of the College of Medicine, June, 1907, degrees were conferred as follows:

M.D.

Adolph Oscar Aaker.
John Aimone.
David Alexander.
Charles Newton Allison.
Frank Godfrey Andreen, A.M.
Mott Hunton Arnold.
Elmer David Augspurger.
Arthur Simon Bachmann.
Elizabeth Browning Ball.
Charles Anson Ballard.
Eric Kline Bartholomew.
Will Otto Bell, M.D.
Elizabeth Bentele.
Eugene Emmett Bermingham.
Burt George Bissell.
Francis Earl Briggs.
Calvin Edgar Brown, M.D.
Robert Herman Buck, D.D.S.
Arthur Jefferson Buckner.
Charles Oliver Bulger.
Chester John Challenger, M.D.
Frank Chauvet.
John Kendall Chorlog, A.B.
John Edward Clark.
Charles Frazier Clark.
Fred B Clarke.
John Golder Cogswell, B.S. Ph.G. M.D.
Ada Scott Conner.
Alfred Woodham Conner.
Charles Larkin Conroy, A.B.
William Henry Conser.
Martha Marilla Crofut.
William McKee Crosier.
Joseph Louis Cunningham.
Joseph Swisher Cunningham, M.D.
William J Demorest Curtis.
Fred Beam Cyphers, M.D.
George Luther Davenport.
Wills Iwing Dillingham, M.D.
Fred Robert Disney.
Oscar Boone Edmondson, B.S.
James Albert Edwards.

Louis William Eidam.
Jesse Ettelson.
Mirza Ameen Ullah Fareed.
John Hogan Farrell.
Charles Eduard Max Fischer.
Arthur Leopold Forster.
George Snow Fortier.
Jacob Frank Friesen, M.D.
Oscar Brunk Funkhouser.
Otto Albert Gahl.
Walter Bertram Gerhard.
James Graybeal.
Holland Todd Ground.
William Parker Gunn.
Silas Van Hageman.
Oscar Amadeus Hansen, M.D.
Robert Rochester Hansen.
J Glen Harbison, M.D.
Esther Alice Hart.
Martha Hayward.
Maurice Charles Hecht.
Thomas Jerome Henneberry.
Robert Asa Hills.
John Herman Holm.
Clyde Switzer Horton.
Ross Huston.
John Knox Jamieson, M.D.
Hilerd Enno Jenkins.
Earl Bowen Jewell.
Johannes Johnson.
Willis Elmer Keith.
Herman Buchanan Kingsbury.
Herman Armin Klein, M.D.
Albert Garfield Koch.
Melville Charles Korb, M.D.
Arthur Louis Kusske.
John H. Leebens.
Phillip Leicht.
John Taggart Lemmel.
Frank Emil Lindahl.
Fred Jackson McComb.
Duncan Brown McEachern, LL.B., M.D.
Robert David McKay.
John Douglas MacKeller, M.D.
John A. Maguire.
George John Mautz, A.B.
Maurice Elias Mesirow.
Max Meyerovitz.
Salvador Francis Joseph Mirabella.
Joseph Henry Mitchell.
DeCou Carpenter Moulding, M.D.
James Edward Earle Nelles.
Nels Christian Nelson.
Betty Augustina Nilsson.
Olof Adolphus Olson.
James Henry Oughton.
August Walter Pearson.
Axel Emanuel Peterson.
Nelson Chancellor Phillips, A.B.
Irwin Augustus Port.
Roy Clyde Pynn.
Bertram Arthur Richardson.
Herman A. Rigterink.
Wilber Berry Roads.
Arthur Matthew Rodermund.
Cameron Alfred Rose.
Jesse Eugene Russ.
Hans Schiffbauer.
George Alexander Schneider, M.D.
Edwin Frederick Schroeder.
Alfred John Charles Schwartz.
Alvin Rufus Scott, M.D.
Charles Segal.
Henry Hulse Seibert.
Clara Pauline Seippel.
Charlotte Margaretha Sekler.
Ansly Thomas Shearer.

Samuel George Sher.
Myron A. Sherper.
Frank Siedenberg, Ph.G.
James Evart Derreckson Silcox.
George Mortimer Smith.
Hiram Jay Smith.
Wilbert A. Staley.
J. Carl Steiner, M.D.
Leo Steiner, M.D.
Eli Nathan Stenn.
Edward Walter Thurer, B.L.
John Joseph Toeller.
Julius Arthur Toran.
Charles P. Unger.
Walter Van de Erve, M.D.
Robertus Lubert Van Dellen, M.D.
Robert Lavern Wade.
Earl P. Wagner, Ph.C.
Willaim Bard Wakefield.
George Nathan Wassom.
Robert Weber, Ph.G.
John Emerson Whitehill.
Joseph Hall Whiteley, Ph.G.
Pitt Stevens Wilson.
Frank Joseph Wochos.
Maurice Benjamin Wolinsky.
Jay Thomas Wood.
Rose Emma Zalesky.

At the commencement of the School of Pharmacy, April 25, 1907, degrees were conferred as follows:

PH.G.

Andrew Bakkers.
Ernest Henry Behrensmeyer.
William John Beyermann.
Mark Dean Bickford.
Karel Bartholomae Blahnik.
Carl Gustave Carlson.
Elmer Eldorado Cassin.
Joseph Herman Christmann.
George Eisele.
Robert Fielding Haines.
Lotis Loma Huston.
Charles Fremont Kingery.
John Joseph Krzemieniewski.
John Peter Lee.
Ira Willard Lindley.
Hugh McNain.
Paul Owen Martin.
George Clark May.
Max Mendelssohn.
Jesse Earl Miles.
Arthur James Nelson.
Garret James O'Neil, (Class of 1905).
Walter Henry Reuter.
Fred Emil Schinz.
George Louis Secord.
Edward D. Stefano, (Class of 1906).
George Keith Thomson.
Edward Charles Wach.
Frances Ellsworth Wells, (Class of 1905).
Charles Ray Yundt.

At the commencement of the College of Dentistry, May 31, 1907, degrees were conferred as follows:

D.D.S.

Thomas Anthony Ashwerth.
Walter Edward Becker.
Ezra T. Clark.
Carleton Cleveland.
Benjamin Bicknell Cronk.
Dorsey Boatman Davis.
William John Dierks.
Ralph Burt Driver.
Joseph Atwood Dunn.
Leo J. Fels.
Clarence L. Foley.
David A. Frankel.
Henry A. Frey.
Abraham Nathan Halperin.
Aaron Bloom Harris.
William B. Hendricks.
Thomas Ellsworth Hoover.
Joseph Elmer Jacobs.
Maurice Lasker.
Samuel A. Levin.
Bradley Franklin Lockwood.
George Ernest Lyons.
Thomas James McCarthy.
James Steele McCreight.
Maynard Maine Marquis.
Lawrence Bernard Murphy.
Waleryan Waclaw Nowacki.
LeRoy Henry Phifer.
Alexander A. Shere.
Joel Isschar Singer.
Harry Thomas Spangler.
Johanne C. Thompson.
George William Wheeler.
Anthony John Zimonth.

SCHOLARSHIPS, HONORS AND COMMISSIONS

HONORARY SCHOLARSHIPS

Clark,	Cline, Menzo D.,	*Martinsville.*
Washington,	Witte, Hulda C.,	*Pekin.*

COUNTY SCHOLARSHIPS

Adams,	Harkness, Columbus L.,	*Adams.*
Adams,	Brownfield, Lelah,	*Champaign.*
Adams,	Brakensick, Jessie D.,	*Quincy.*
Alexander,	Butler, Comfort S.,	*Cairo.*
Bond,	McLean, Walter R.,	*Coffeen.*
Boone,	Bailey, Ernest H.,	*Geneva.*
Boone,	Schickedanz, Simon A.,	*Pontiac.*
Brown,	Malcolm, Howard S.,	*Roseville.*
Brown,	Hersman, Francis C.,	*Hersman.*
Bureau,	Waddell, Charles A.,	*Princeton.*
Bureau,	Knox, Samuel M., Jr.,	*Sheffield.*
Bureau,	Nelson, Saidee E.,	*Manlinus.*
Bureau,	Zearing, Louis A.,	*Princeton.*
Calhoun,	Stone, Paul P.,	*Lincoln.*
Calhoun,	Bollman, Minnie J.,	*Champaign.*
Calhoun,	Bartells, Henry H.,	*Camp Point.*
Carroll,	Daehler, Albert H.,	*Chadwick.*
Carroll,	Naffziger, Oliver H.,	*Dwight.*
Cass,	Blohm, Lee R.,	*Beardstown.*
Cass,	Franken, Ewell G.,	*Chandlerville.*
Cass,	Mohlman, Floyd William,	*Beardstown.*
Champaign,	Leidendeker, Frank E.,	*Urbana.*
Champaign,	Pearce, Ira,	*Champaign.*
Champaign,	White, Florence L.,	*Rantoul.*
Champaign,	Heater, Elmer F.,	*Champaign.*

Christian,	Large, George P.,	*Owaneco.*
Christian,	Fizzell, Robert B.,	*Taylorville.*
Clark,	Carrithers, Ira T.,	*Sainemin.*
Clark,	Fishback, William M.,	*Marshall.*
Clark,	Hubbart, Curtis Clay,	*Champaign.*
Clark,	Hull, Walker F.,	*Martinsville.*
Clark,	Gordon, Willis O.,	*Paris.*
Clay,	Robinson, Willis S.,	*Champaign.*
Clay,	Doherty, R. E.,	*Clay City.*
Clinton,	Putnam, William J.,	*Pana.*
Clinton,	Boyer, Walter H.,	*Carlyle.*
Coles,	Byers, Frank M.,	*Charleston.*
Coles,	Stewart, Charles S.,	*Charleston.*
Coles,	Bouscher, Nelle G.,	*Champaign.*
1st Senatorial District,	Berolzheimer, Teresa Ruth,	*Chicago Heights.*
1st Senatorial District,	Almy, William H.,	*Sterling.*
2nd Senatorial District,	Carper, John F.,	*Buda.*
3rd Senatorial District,	Hill, Harry S.,	*Paxton.*
4th Senatorial District,	Clifford, Winnifred H.,	*Champaign.*
4th Senatorial District,	Coleman, William F.,	*Chicago.*
5th Senatorial District,	Weber, Emil A.,	*Champaign.*
5th Senatorial District,	Dean, Harold C.,	*Chicago.*
6th Senatorial District,	Hess, Lawrence J.,	*Evanston.*
6th Senatorial District,	Kressman, Fred W.,	*Chicago.*
7th Senatorial District,	Pettigrew, James Q.,	*Harvey.*
9th Senatorial District,	Krueger, Earnest T.,	*Chicago.*
9th Senatorial District,	Hanson, Herman L.,	*Paxton.*
11th Senatorial District,	Underwood, Wilbert E.,	*Austin.*
11th Senatorial District,	Brundage, Avery,	*Chicago.*
13th Senatorial District,	Weston, Frederick W.,	*Chicago.*
15th Senatorial District,	Doherty, Mary G.,	*LaGrange.*
15th Senatorial District,	Alverson, Maude L.,	*Urbana.*
19th Senatorial District,	Cutler, Stanley G.,	*Chicago.*
21st Senatorial District,	Tear, Herbert L.,	*Chicago.*
21st Senatorial District,	Boynton, Napoleon H.,	*Chicago.*
23rd Senatorial District,	Hanson, Frank L.,	*Austin.*
23rd Senatorial District,	Fink, Erna M. E.,	*Chicago.*
25th Senatorial District,	Van Petten, Robert M.,	*Champaign.*
25th Senatorial District,	Hjort, Nels R.,	*Chicago.*

29th Senatorial District,	Hill, Nathan R.,	*Champaign.*
29th Senatorial District,	Jordan, Myron K.,	*Savoy.*
Cook,	Mauel, Leonard,	*Chicago.*
Cook,	Froelich, Milton H.,	*Chicago.*
Crawford,	Bevis, Daily G.,	*Newton.*
Crawford,	Hull, Anna L.,	*Martinsville.*
Crawford,	Boon, Elvin E.,	*Chrisman.*
Cumberland,	Lord, Maurice F.,	*Plano.*
Cumberland,	Hill, Fanny W.,	*Champaign.*
Cumberland,	Fisher, Forest A.,	*Greenup.*
DeKalb,	Lund, James C.,	*Paxton.*
DeKalb,	Bardwell, Robert C.,	*Aurora.*
DeKalb,	Luney, Ellzey H.,	*DeKalb.*
DeWitt,	Matthews, Nellie P.,	*Clinton.*
DeWitt,	Holmquist, Fred N.,	*Weldon.*
DeWitt,	Marsh, Daniel,	*Weldon.*
DeWitt,	Burwash, Arthur E.,	*Savoy.*
Douglas,	Lewis, Lucy E.,	*Danville.*
Douglas,	Hitch, Dorris N.,	*Champaign.*
Douglas,	Wascher, Frederich M. W.,	*Champaign.*
DuPage,	Greene, William B.,	*Downers Grove.*
DuPage,	Thompson, George Brooks,	*Wheaton.*
DuPage,	Lewis, Goodrich Q.,	*Wheaton.*
Edgar,	Tucker, Jesse O.,	*Champaign.*
Edgar,	Potter, Charles P.,	*Hoopeston.*
Edgar,	Shirley, Orin E.,	*Paris.*
Edgar,	Rogers, William T.,	*Hume.*
Edwards,	Rice, Charles C.,	*Bone Cap.*
Effingham,	Stair, Jacob L.,	*Altamont.*
Effingham,	Poorman, Amy,	*Altamont.*
Effingham,	Jones, Bertha M.,	*Champaign.*
Fayette,	Davis, Howard S.,	*Vandalia.*
Ford,	Laurence, Albert F.,	*Paxton.*
Ford,	Lindblom, Ernest F.,	*Paxton.*
Franklin,	Tucker, Burton F.,	*Anna.*
Franklin,	Livingston, Ray C.,	*Mt. Vernon.*
Fulton,	Linton, Margie,	*Lewistown.*
Fulton,	Cogswell, George O.,	*Champaign.*
Gallatin,	Rowland, Claude K.,	*Martinsville.*
Greene,	Allen, George B.,	*Roodhouse.*

Grundy,	Moss, Royal R.,	*Morris.*
Hancock,	Preston, Frank D.,	*Carthage.*
Hancock,	Baxter, Florence,	*Nauvoo.*
Henderson,	Baxter, Charles B.,	*Nauvoo.*
Henry,	Slaymaker, Charles M.,	*Geneseo.*
Henry,	Cummings, Preston W.,	*Sheffield.*
Henry,	Williams, Grace A.,	*Galva.*
Henry,	Swanson, Elder L.,	*Paxton.*
Henry,	Randall, Arthur E.,	*Cambridge.*
Iroquois,	Dillon, Lee A.,	*Sheldon.*
Iroquois,	Pierce, Donald A.,	*Watseka.*
Iroquois,	Green, Lee F.,	*Gibson City.*
Jackson,	Rollo, Ralph A.,	*Murphysboro.*
Jasper,	Ramser, Charles E.,	*Newton.*
Jasper,	Leslie, Elmer A.,	*Tolono.*
Jasper,	Barker, Raymond L.,	*Newton.*
Jefferson,	Mann, Mary Elizabeth,	*Gilman.*
Jefferson,	Maxey, Charles L.,	*Mt. Vernon.*
Jersey,	Roberts, Clarence G.,	*Beardstown.*
Jo Davies,	Wright, Mary Eleanor,	*Dwight.*
Kane,	Miller, John J.,	*Geneva.*
Kane,	Deuchler, Walter E.,	*Aurora.*
Kane,	Hildebrandt, Paul A.,	*Carpentersville.*
Kankakee,	Van Inwagen, Frank,	*Momence.*
Kankakee,	Clarke, Carrie L.,	*Momence.*
Kankakee,	Park, Vance W.,	*Champaign.*
Kankakee,	Whittum, Fred H.,	*Herscher.*
Kendall,	Snook, Vera J.,	*Ottawa.*
Knox,	Shrader, Frank K.,	*Knoxville.*
Knox,	Sussex, Harry,	*Abingdon.*
Knox,	Mansfield, Warren M.,	*Abingdon.*
Lake,	Haines, Arthur C.,	*Gibson City.*
Lake,	Van Duyn, Paul,	*Highland Park.*
LaSalle,	Shute, Robert L.,	*Ottawa.*
LaSalle,	Watson, William S.,	*Ottawa.*
Lawrence,	Bushnell, Horace,	*Paxton.*
Lawrence,	Redhed, William S.,	*Tolono.*
Lawrence,	Jasper, Edward M.,	*Newton.*
Lee,	Smith, Irwin W.,	*Champaign.*
Lee,	Miller, Edwin M.,	*Geneva.*
Lee,	James, Louise A.,	*Amboy.*

Livingston,	Hager, Earl N.,	*Dwight.*
Livingston,	Moschel, Herman,	*Pontiac.*
Livingston,	Foersterling, Fred J.,	*Dwight.*
Logan,	Howser, Theron R.,	*Lincoln.*
Logan,	Applegate, Annie M.,	*Atlanta.*
Logan,	Applegate, Vern,	*Atlanta.*
McDonough,	Terrill, Fred,	*Colchester.*
McDonough,	Burns, Ruth M.,	*Macomb.*
McHenry,	Stevens, Grace E.,	*Marengo.*
McHenry,	Hood, Joseph D.,	*Chicago.*
McLean,	Turk, Bella S.,	*Litchfield.*
Macon,	McLean, John C.,	*Maroa.*
Macon,	Hadley, Homer L.,	*Maroa.*
Macon,	Sterling, James D.,	*Maroa.*
Macon,	Purnell, Vern,	*Champaign.*
Macoupin,	Braley, Howard D.,	*Virden.*
Macoupin,	East, Warren E.,	*Maroa.*
Macoupin,	Wooters, Leland M.,	*Carlinville.*
Madison.	Lowry, Thomas G.,	*Upper Alton.*
Marion,	Gross, Meda F.,	*Atwood.*
Mason,	Stevenson, Milton L.,	*Mason City.*
Mason,	Kreiling, Chris H.,	*Forest City.*
Mason,	Petrie, David,	*Mason City.*
Massac,	Brown, Edward W.,	*Metropolis.*
Menard,	Hall, Ward Elmo,	*LaMoille.*
Menard,	Devine, Robert P.,	*Chester.*
Menard,	Neff, Edna,	*Petersburg.*
Mercer,	Lee, Charles Bopes,	*Aledo.*
Mercer,	Simmons, John W.,	*Keithsburg.*
Montgomery,	Turk, Elkan,	*Litchfield.*
Montgomery,	Cratty, Estella F.,	*Litchfield.*
Moultrie,	Davidson, Dora,	*Sullivan.*
Moultrie,	Craig, Ollison,	*Sullivan.*
Moultrie,	Peadro, Earl D.,	*Sullivan.*
Ogle,	McRobie, Jessie B.,	*Chicago.*
Peoria,	Chichester, Emily,	*Brimfield.*
Peoria,	Engstrom, Charles L.,	*Peoria.*
Perry,	Bell, Charles M.,	*Champaign.*
Piatt,	Cline, Bessie F.,	*Monticello.*
Pike,	Blair, Alice L.,	*Barry.*

Pike,	Laughlin, Ely V.,	*Pittsfield.*
Pulaski,	Manock, Wilbur R.,	*Farmer City.*
Putnam,	Berolzheimer, Hannah B.,	*Chicago Heights.*
Randolph,	Yehling, Albert C.,	*Sparta.*
Randolph,	Zahn, Fred R.,	*Chester.*
Randolph,	Gerlach, Miriam,	*Chester.*
Rock Island,	Sheriff, Ralph E.,	*Reynolds.*
Rock Island,	Dixon, Guy,	*Ambia, Ind.*
Rock Island,	Miller, Bert A.,	*Forrest.*
Rock Island,	Hagedorn, Fred,	*Rock Island.*
St. Clair,	McDonald, Lewis,	*Brownstown.*
Saline,	Thompson, Samuel M.,	*Harrisburg.*
Saline,	Henshaw, Amy,	*Harrisburg.*
Saline,	Morgan, Charles L.,	*Champaign.*
Sangamon,	Chapin, William L.,	*Springfield.*
Schuyler,	Weinberg, Nina M.,	*Rushville.*
Schuyler,	Browning, Alta M.,	*Rushville.*
Scott,	Smith, Leslie A.,	*Champaign.*
Scott,	Reeder, Claude H.,	*Watseka.*
Shelby,	Gregory, Lenna Mabel,	*Moweaqua.*
Shelby,	Corrington, Cloyd E.,	*Moweaqua.*
Shelby,	Webber, Lois R.,	*Shelbyville.*
Shelby,	Tietje, Ralph E.,	*Urbana.*
Stark,	Stewart, James S.,	*Toulon.*
Stephenson,	Hunt, Agnes,	*Ridott.*
Tazewell,	Cook, Frank S.,	*Mackinaw.*
Tazewell,	Hight, Eugene S.,	*Delavan.*
Tazewell,	Turner, George W.,	*Virginia.*
Union,	Maze, Everet A.	*Anna.*
Union,	Clendenen, Paul M.,	*Cairo.*
Union,	Leonard, Myrl,	*Anna.*
Union,	Smith, Grace L.,	*Anna.*
Vermilion,	Porterfield, Nellie M.,	*Fairmount.*
Vermilion,	Ferris, Charles F.,	*Danville.*
Wabash,	Foster, Joseph Kyle,	*Mt. Carmel.*
Warren,	Wickersham, Clarence E.,	*Roseville.*
Warren,	White, Clarence W.,	*Lacon.*
Warren,	Colvin, Albert A.,	*Wheaton.*
Washington,	Loutzenhiser, Ernest H.,	*Danville.*

Wayne,	Hughes, Charles H.,	*Fairmount.*
Wayne,	Pierce, Laura E.,	*Gifford.*
Wayne,	Jones, Walter R.,	*Redmon.*
White,	Reeves, Harry P.,	*Carmi.*
White,	Worsham, Walter B.,	*Paris.*
Whiteside,	Buyers, Archie S.,	*Sterling.*
Whiteside,	Almy, Lloyd Huber,	*Sterling.*
Whiteside,	Abbott, Frances D.,	*Morrison.*
Whiteside,	Hermann, Edgar,	*Sterling.*
Will,	McCracken, Robert W.,	*Plano.*
Will,	Larson, William H.,	*Paxton.*
Williamson,	Oberdorfer, Henry D.,	*Marion.*
Winnebago,	Munger, Guy E.,	*Rock Island.*
Winnebago,	Thayer, Henry S.,	*Chicago.*
Woodford,	Fruin, Mary C.,	*El Paso.*

GENERAL ASSEMBLY SCHOLARSHIPS

(Nominated by members of the General Assembly.)

2nd District,	Jacobson, Seymour A.,	*Chicago.*
6th District,	Gates, Frank C.,	*Chicago.*
6th District,	Knowles, Charles H.,	*Chicago.*
7th District,	Myers, Arthur L.,	*Harvey.*
8th District,	Rosencrans, Fred B.,	*Waukegan.*
8th District,	Beck, Herbert C.,	*Harvard.*
8th District,	Jones, Edward W.,	*Ravinia.*
9th District,	Westlund, Albert F.,	*Chicago.*
10th District,	Swits, Francis H.,	*Rockford.*
10th District,	Robinson, Kendall E.,	*Rockford.*
12th District,	Arnold, Charles,	*Galena.*
13th District,	Penn, Henry,	*Chicago.*
13th District,	Way, Clyde,	*Chicago.*
13th District,	Aleshire, Merlin C.,	*Chicago.*
14th District,	Muschler, Henry C. W.,	*Aurora.*
14th District,	Bardwell, Richard W.,	*Aurora.*
16th District,	Righter, Edwin B.,	*Saunemin.*
16th District,	Burns, Cyril Agard,	*Fairbury.*
16th District,	Wells, Ralph R.,	*Wenona.*
16th District,	Wilcox, George E.,	*Minonk.*
16th District,	DeButts, Cary,	*Pontiac.*
18th District,	Cullings, Ross E.,	*Elmwood.*

18th District,	Christensen, Camillo C.,	*Peoria.*
20th District,	Whittum, Samuel H.,	*Herscher.*
22nd District,	Jeter, George G.,	*Paris.*
22nd District,	Burton, Earl K.,	*Isabel.*
22nd District,	Thompson, Milton W.,	*Danville.*
24th District,	Rugg, Daniel M.,	*Champaign.*
24th District,	Hinman, Lawrence D.,	*Champaign.*
24th District,	O'Beirne, William F.,	*Tolono.*
26th District,	Speedie, William W.,	*Gibson City.*
26th District,	Lundahl, Raymond R.,	*Gibson City.*
26th District,	Nielsen, Gordon F.,	*Paxton.*
28th District,	Foley, John Warner,	*Clinton.*
28th District,	Mangas, Lyman S.,	*Lincoln.*
30th District,	Weinberg, Margaret,	*Rushville.*
32nd District,	Miles, Lois M.,	*Bushnell.*
32nd District,	Rogers, Ama Sophie,	*Bushnell.*
33rd District,	Nelson, James R.,	*Moline.*
33rd District,	Graham, Paul J.,	*Aledo.*
34th District,	McIntyre, James V.,	*Newman.*
35th District,	Miller, William C.,	*Sycamore.*
36th District,	Bornmann, John H., Jr.,	*Quincy.*
37th District,	Kaar, Walter J.,	*Princeton.*
37th District,	Mason, Mayne S.,	*Buda.*
38th District,	Flatt, Harrison O.,	*Carrollton.*
38th District,	Brown, Ralph Edgar,	*Hillsboro.*
38th District,	Fletcher, Elizabeth B.,	*Bunker Hill.*
38th District,	Mosby, Ben H.,	*Carlinville.*
39th District,	Sumberg, Abraham,	*Utica.*
40th District,	Overmier, Melvern D.,	*Mt. Auburn.*
40th District,	Barth, George A. C.,	*Pana.*
40th District,	Anderson, Charles T.,	*Taylorville.*
40th District,	Tate, Harry L.,	*Vandalia.*
41st District,	Prout, Harold B.,	*Wheaton.*
41st District,	Welden, Edmund A.,	*Wheaton.*
42nd District,	Mautz, Charlie B.,	*Watson.*
42nd District,	Gaston, Omar,	*Kell.*
42nd District,	Stephenson, Roger A.,	*Carlyle.*
42nd District,	McGinnis, Archibald,	*Effingham.*
44th District,	Brands, Edgar G.,	*Prairie du Rocher.*
45th District,	Alexander, James G.,	*Jacksonville.*

47th District,	Eisenmayer, Arthur W., Jr.,	*Granite City.*
47th District,	Griffith, Rolland, W.,	*Granite City.*
50th District,	Hudelson, Charles L.,	*Benton.*
50th District,	Benson, Joe P.,	*Herrin.*
51st District,	Myers, Jacob W.,	*Harrisburg.*

AGRICULTURAL SCHOLARSHIPS

Adams,	Madison, Lawrence C.,	*Quincy.*
Adams,	Shupe, Chester B.,	*Paloma.*
Alexander,	Bunch, Joseph R.,	*McClure.*
Alexander,	Genung, Elisha N.,	*Rantoul.*
Bond,	Abrams, Samuel,	*Urbana.*
Boone,	O'Donnell, Hugh,	*Belvidere.*
Brown,	Harris, Norris D.,	*Loraine.*
Brown,	Rigg, Clinton B.,	*Mt. Sterling.*
Bureau,	Burnett, Fred W.,	*Longview.*
Calhoun,	Keller, Roy H. L.,	*Quincy.*
Calhoun,	Love, Howard F.,	*Sidney.*
Carroll,	Burke, Ira H.,	*Golden.*
Carroll,	Lockwood, C. M.,	*Stonington.*
Cass,	Gridley, Howard M.,	*Virginia.*
Champaign,	Smith, Howard A.,	*Urbana.*
Champaign,	Potter, John W.,	*Champaign.*
Christian,	Kincaid, Albert Rex,	*Taylorville.*
Christian,	Krieger, Augustus E.,	*Stonington.*
Clark,	LeSure, Charles S.,	*Olney.*
Clark,	Gebhart, Elmer F.,	*Stonington.*
Clay,	Meisenhelter, Ray W.	*Rosemond.*
Clinton,	McNutt, Ray J.,	*Charleston.*
Coles,	Bond, George T.,	*Charleston.*
Coles,	McDougle, Charles,	*Charleston.*
1st Cong. District,	Barber, Luther H.,	*Chicago.*
1st Cong. District,	Shearer, Andrew W.,	*Henry.*
2d Cong. District,	Stewart, Myron B.,	*Englewood.*
2d Cong. District,	Leonard, Harold R.,	*Chicago.*
3d Cong. District,	Waldie, James R. R.,	*Chicago.*
3d Cong. District,	Sawtell, William A.,	*Chicago.*
4th Cong. District,	Polkowski, Harry,	*Chicago.*
5th Cong. District,	Wray, Robert C.,	*Quincy.*

5th Cong. District,	Sturgeon, Alfred H.,	*LaGrange.*
6th Cong. District,	Gatzert, Nathan E.,	*Chicago.*
6th Cong. District,	Grannis, Frank C.,	*Chicago.*
7th Cong. District,	Rand, Walter A.,	*Chicago.*
8th Cong. District,	Griffith, Leland S.,	*McNabb.*
8th Cong. District,	Langan, John J.,	*Kankakee.*
8th Cong. District,	Hoffman, Paul A.,	*Chicago.*
9th Cong. District,	Mason, Ralph G.,	*Downers Grove.*
9th Cong. District,	Gunderson, Alfred J.,	*Chicago.*
10th Cong. District,	Flanders, Paul A.,	*Glencoe.*
Crawford,	Condrey, Chase L.,	*Palestine.*
Cumberland,	Wakeley, Leslie M.,	*Harvard.*
DeKalb,	Baird, John Henry,	*DeKalb.*
DeKalb,	Stabler, James W.,	*Neponset.*
DeKalb,	Masley, Jacob,	*Shermerville.*
DeWitt,	Dalbey, Will Edward,	*Taylorville.*
DeWitt,	Ruehe, Harrison A.,	*Waukegan.*
Douglas,	Voorhees, Lucien W.,	*Blue Island.*
Douglas,	Ewing, George E.,	*Arcola.*
DuPage,	Fischer, Arvin W.,	*Bensenville.*
DuPage,	Barrett, George S.,	*Lewistown.*
Edgar,	Trotter, Clinton P.,	*Kansas.*
Edgar,	Smittkamp, Chester A.,	*Paris.*
Edwards,	Rice, Ernest A.,	*Bone Gap.*
Edwards,	Rohrer, Carl J.,	*Canton.*
Effingham,	Pratt, Lucian,	*Avon.*
Fayette,	Depler, Dean,	*Lewistown.*
Ford,	Arends, Fred G.,	*Melvin.*
Ford,	Brown, Ferrel M.,	*Robinson.*
Franklin,	Lumbrick, Arthur,	*Charleston.*
Franklin,	Gilman, George A.,	*Harristown.*
Fulton,	Waggoner, Edwin H.,	*Lewistown.*
Fulton,	Negley, Laurel A.,	*Cuba.*
Gallatin,	Eminger, Evan B.,	*Gibson City.*
Gallatin,	Turner, Emery A.,	*Wenona.*
Greene,	Meek, Alva B.,	*Carrollton.*
Greene,	Wiekert, Ricus,	*Emden.*
Grundy,	Trotter, William L.,	*Coal City.*
Grundy,	Happer, James Harrison,	*Farmington.*
Hamilton,	Edwards, George G.,	*McLeansboro.*
Hancock,	Hedgcock, William E.,	*Plymouth.*

Hancock,	Teesdale, Hugh T.,	*Pontoosuc.*
Hardin,	Rogers, Clarence A.,	*Wyoming.*
Henderson,	Stewart, Harold W.,	*Hebron.*
Henderson,	King, Bruce A.,	*Plymouth.*
Henderson,	Peasley, John H.,	*Stronghurst.*
Henry,	Kipp, Karl P.,	*Annawan.*
Henry,	Tracy, Glenn K.,	*Osco.*
Iroquois,	Caveney, Frank M.,	*Crescent City.*
Iroquois,	Rein, Fritz,	*Gilman.*
Jackson,	Davis, Thomas G.,	*De Soto.*
Jackson,	Lobdell, John R.,	*Carbondale.*
Jasper,	Seymour, Robert R.,	*Henning.*
Jasper,	Elliot, James M.,	*Chebanse.*
Jefferson,	Riggs, Ray Vere,	*Jerseyville.*
Jersey,	Drew, Joseph Allen,	*Watseka.*
Jersey,	Rives, Oakley B.,	*Rock Bridge.*
Jersey,	Daniels, Louis W.,	*Jerseyville.*
Jo Davies,	Hart, William E.,	*Brighton.*
Johnson,	Simpson, Francis M.,	*Vienna.*
Johnson,	Galeener, William K.,	*Vienna.*
Kane,	Balis, William H.,	*St. Charles.*
Kane,	Bean, Earl G.,	*Hampshire.*
Kankakee,	Risser, Ralph G.,	*Kankakee.*
Kankakee,	Snyder, Logan A.,	*Kankakee.*
Kankakee,	Fellows, James P.,	*Kankakee.*
Kendall,	Seely, John G.,	*Oswego.*
Kendall,	Cutter, Watts C.,	*Oswego.*
Kendall,	Boger, Henry H.,	*Aurora.*
Knox,	Briggs, Strother A.,	*Minier.*
Knox,	Judson, Howard M.,	*Galesburg.*
LaSalle,	Bassett, Clifton H.,	*LaSalle.*
Lawrence,	Esmond, Oakley W.,	*Ottawa.*
Lee,	Murphy, William E.,	*Odell.*
Livingston,	Stanford, Howard R.,	*Chatsworth.*
Livingston,	Murphy, John D.,	*Odell.*
Logan,	Applegate, Arthur L.,	*Atlanta.*
Logan,	Tilson, Delbert M.,	*Williamsville.*
Logan,	Miller, Charles M.,	*Atlanta.*
McDonough,	Walker, Ernest D.,	*Tennessee.*
McDonough,	Miner, Paul I.,	*Adair.*
McDonough,	Jones, Ebon C.,	*Bloomington.*

McHenry,	Gilkerson, Harry C.,	*Marengo.*
McHenry,	Cash, Harold S.,	*Harvard.*
McLean,	Huff, Ralph T.,	*Lexington.*
Macon,	Rucker, Melvin B.,	*Decatur.*
Macon,	Fombelle, Just S.,	*Decatur.*
Macoupin,	Vaniman, Vernon,	*Virden.*
Macoupin,	Allyn, Orr,	*Modesto.*
Madison,	Thompson, Elmer J.,	*Nameoki.*
Madison,	Eaton, Edward F.,	*Worden.*
Marion,	Whitchurch, John E.,	*Salem.*
Marion,	Henderson, David H.,	*Holcomb.*
Marshall,	Ball, Jonas H.,	*Toluca.*
Marshall,	Turner, Ernest D.,	*Wenona.*
Mason,	Cress, James W.,	*Hillsboro.*
Massac,	Challacombe, Harvey E.,	*Challacombe.*
Menard,	Kincaid, John K.,	*Athens.*
Menard,	Swingle, Earl H.,	*Athens.*
Mercer,	Lee, Otis H.,	*Hamlet.*
Monroe,	Railsback, Fay D.,	*Normal.*
Monroe,	Fullenwider, Wilfred T.,	*Mechanicsburg.*
Montgomery,	Baker, Pearl Ransom,	*Irving.*
Morgan,	Smith, Theodore M.,	*Auburn.*
Morgan,	Ellsberry, Lloyd K.,	*Mason City.*
Morgan,	Robinson, Carroll R.,	*Prentice.*
Moultrie,	Chipps, Earl C.,	*Sullivan.*
Moultrie,	Freeland, Chesley B.,	*Dalton City.*
Ogle,	Hussey, Stephen S.,	*Princeton.*
Ogle,	Hickey, Joseph E.,	*Stillman Valley.*
Peoria,	Atwood, Paul W.,	*Lewistown.*
Peoria,	Meeker, Maurice S.,	*Peoria.*
Peoria,	Tracy, Perry A.,	*Princeville.*
Peoria,	Constant, Clarence R.,	*Williamsville.*
Perry,	Growden, Arthur F.,	*Carbondale.*
Perry,	Jackson, Chester H.,	*Joy.*
Piatt,	Burwash, Milo E.,	*Champaign.*
Piatt,	Howell, Fred W.,	*Champaign.*
Piatt,	Davies, Edmund C.,	*Bement.*
Pike,	Foreman, Alvin Claude,	*Pittsfield.*
Pike,	Doyle, Herbert F.,	*Sparland.*
Pope,	Turner, Arthur L.,	*Wenona.*

Putnam,	Mills, Clifford P.,	*McNabb.*
Putnam,	Millar, William H.,	*Selbytown.*
Putnam,	Durley, Williamson M.,	*Hennepin.*
Randolph,	Acom, William H.,	*Lake City.*
Rock Island,	Moburg, Cornelius F.,	*Cameron.*
St. Clair,	Harmon, Murvin T.,	*Lebanon.*
St. Clair,	Harmon, Raymond W.,	*Lebanon.*
Saline,	Berthold, Lewis R.,	*Aurora.*
Sangamon,	Stout, John P.,	*Glenarm.*
Sangamon,	Christopher, Carl,	*Auburn.*
Sangamon,	Stout, Frank L.,	*Glenarm.*
Schuyler,	Patton, Matthew C.,	*Divernon.*
Schuyler,	Teel, Charles H.,	*Rushville.*
Scott,	Van Duyn, Charles A.,	*Pawnee.*
Scott,	Woodrow, Richard L.,	*Green Valley.*
Shelby,	White, Frank,	*Shelbyville.*
Shelby,	Corzine, Leslie C.,	*Assumption.*
Shelby,	Swanson, Sven G.,	*Potomac.*
Stark,	Brown, Jesse L.,	*Wyoming.*
Stephenson,	Hunt, Elmer L.,	*Henry.*
Stephenson,	Holmes, Oliver Wendell,	*Lena.*
Tazewell,	Jenkins, George E.,	*Delavan.*
Tazewell,	Ryan, William E.,	*Delavan.*
Union,	Jacobson, Herluf,	*Liberty.*
Vermilion,	Seymour, Walter A.,	*Henning.*
Vermilion,	Green, Roy Ezra,	*Oakwood.*
Wabash,	Corrie, James R.,	*St. Francisville.*
Wabash,	Klett, Howard Charles,	*Plainfield.*
Warren,	Hall, Ward Everett,	*Monmouth.*
Warren,	Reed, James Boone,	*Kirkwood.*
Washington,	Cooper, Mark A.,	*Farmingdale.*
Wayne,	Griffin, Russell S.,	*Fairfield.*
White,	Sterenberg, John F.,	*Fulton.*
Whiteside,	Abbott, Bayard T.,	*Morrison.*
Whiteside,	Reed, Charles F.,	*Sterling.*
Will,	Woodworth, Harry C.,	*Chicago.*
Will,	Boughton, David W.,	*Plainfield.*
Williamson,	Hedges, Guy O.,	*Washington*
Winnebago,	Conklin, James H,	*Rockton.*
Woodford,	Ball, Roscoe L.,	*Eureka.*
Woodford,	Brasfield, Bryant L.,	*Eureka.*

SCHOLARSHIPS IN HOUSEHOLD SCIENCE.

Adams,	Montgomery, Harriett Eleanor,	*Quincy.*
Bureau,	Hussey, Edith H.,	*Princeton.*
Bureau,	Pervier, Mabel I.,	*Sheffield.*
Carroll,	Mackay, Zella G.,	*Mt. Carroll.*
Carroll,	Strauch, Bertha,	*Chadwick.*
Champaign,	Nuckolls, Mary E.,	*Urbana.*
Champaign,	Genung, Ivaloo,	*Rantoul.*
Champaign,	Bush, Julia F.,	*Urbana.*
Christian,	Logan, Grace B.,	*Edinburg.*
Christian,	Kirk, Ethel C.,	*Taylorville.*
Coles,	Harrison, Florence,	*Danville.*
Coles,	Benefiel, Eva M.,	*Mattoon.*
1st Cong. District,	Burns, Mabel B.,	*Princeton.*
2d Cong. District,	Pease, Elva M.,	*Harvey.*
2d Cong. District,	Horine, Ona L.,	*Chicago.*
7th Cong. District,	McConoughey, Mabel M.,	*Chicago.*
9th Cong. District,	Herdman, Margaret M.,	*Winnetka.*
10th Cong. District,	Thurston, Lena M.,	*Winnetka.*
10th Cong. District,	Smith, Mabel C.,	*Rogers Park.*
Douglas,	DeWitt, Emma E.,	*Broadlands.*
Douglas,	Bunch, Mamie,	*Arcola.*
Ford,	Dillon, Bessie,	*Normal.*
Ford,	Mandeville, Hazel D.,	*Champaign.*
Ford,	Langford, Jessie L.,	*Paxton.*
Fulton,	Waughtel, Mrs. Nellie E.,	*Cuba.*
Greene,	Haven, Mabel H.,	*Greenfield.*
Henderson,	Glasgow, Ruth,	*Tennessee.*
Henry,	Cole, Mary I.,	*Geneseo.*
Iroquois,	Matthews, Martha M.,	*Onarga.*
Iroquois,	Nation, Maggie Eloise,	*Chebanse.*
Jo Davies,	Hunt, Ada E.,	*Ridott.*
Kane,	Harley, Mildred E.,	*Aurora.*
Kendall,	Waddell, Mary L.,	*Princeton.*
Knox,	Rambo, Jessie E.,	*Maquon.*
Lee,	Leake, Mabel E.,	*Amboy.*
Livingston,	Holland, Leila,	*Pontiac.*
Livingston,	Swanberg, Pearl,	*Paxton.*
McDonough,	Glasgow, Grace,	*Tennessee.*
McHenry,	Renich, Katherine L.,	*Woodstock.*

McLean,	Berg, Hazel H.,	*Bloomington.*
Macon,	Kirk, Elizabeth,	*Decatur.*
Macon,	Krigbaum, Helen C.,	*Decatur.*
Marion,	Kalkbrenner, Myrtle C. L.,	*Centralia.*
Marshall,	Bass, Florence E.,	*Princeton.*
Mercer,	Morgan, Alta H.,	*Aledo.*
Peoria,	Case, Lura M.,	*Alta.*
Piatt,	Gere, Hazel H.,	*Urbana.*
Piatt,	McClurg, Nellie I.,	*Urbana.*
Putnam,	Broaddus, Elizabeth M.,	*Urbana.*
Rock Island,	Bracker, Mabel,	*Hillsdale.*
Sangamon,	Summer, Lela,	*Auburn.*
Stephenson,	Shannon, Agnes N.,	*Freeport.*
Stephenson,	Eells, Zelma L.,	*Freeport.*
Stephenson,	Tanner, Florence M.,	*Aurora.*
Vermilion,	Bengston, Pearl E.,	*Urbana.*
Will,	Garrett, Leona B.,	*Momence.*
Will,	Sprague, Villa M.,	*Lockport.*
Winnebago,	Taylor, Gertrude,	*Aurora.*
Woodford,	Dickinson, Nell M.,	*Eureka.*

SCHOLARSHIPS IN CERAMICS

Champaign,	Garland, Frank D.,	*Champaign.*
Champaign,	Wilkins, Raymond H.,	*Champaign.*
Cook,	Smith, Raymond R.,	*Chicago.*
Sangamon,	Stuart, Earl K.,	*Springfield.*

CERTIFICATES OF QUALIFICATION TO TEACH SUBJECTS NAMED

Ora L. Born, English, History.
Ruth E. Brown, English.
Emma B. Connelly, Mathematics.
Ethel Crum, German, English Literature.
Nelle S. M. Davis, Mathematics.
Helen M. Eaton, English.
Clara Fallon, Mathematics.
Bessie R. Green, Botany, Zoology.
Alta Gwinn, English.
Alice Howe, English, History.
Louise M. Huse, Mathematics.
Daisy D. Irwin, Latin, English.
Katherine B. Jervis, English.
Viola M. Kampf, History, German.
Gustave A. Kramer, History.
Elmer S. Lake, English, Latin.
Mary H. Lee, English Literature, History.
Nellie A. Loomis, Botany, Zoology.
Alice E. Maddock, Botany, Zoology.
Eva M. McKinnie, Latin, German, English.
Mabel D. Moore, Mathematics, German.
Anice E. Nichol, History, English Literature.
Maud Parsons, Household Science.
Adela L. C. Peine, German, English Literature, History.
Jessie Ryan, English, German.
Imogene Shade, Mathematics, German.
Florence B. Somers, Latin, German.

UNIVERSITY HONORS

Honors were awarded by the Faculty for scholarship in 1906-'07 as follows:

COLLEGE OF LITERATURE AND ARTS

PRELIMINARY HONORS

George Herbert Anderson.
Alice Ledlie Blair.
Lydia Marie Brower.
Benjamin Henry Dietrich.
Clarence Oran Gardner.
George Earl Post.

Mary Isabella Brokaw.
Jay Thomas Burgett.
John Simeon Cleavinger.
Grace Miranda Clow.
Rosalie Mary Retz.
Alliene Schureman.
Samuel Matthew Thompson.
Maude Williamson.

FINAL HONORS

Eleanor Mahan Beardsley.
Wilhelmina Holley Gentsch.
Alice Howe.
Fred Crosby Keeler.
Jane Maria Mather.
Charles Stephen Pillsbury.
Jessie Ryan.
Florence Barbara Somers.
Carl Clinton Van Doren.
Jeannette Lamb Worthen.

SPECIAL HONORS

Carl Clinton Van Doren, in English.
Carrie Belle Norton, in Modern Languages.

COLLEGE OF SCIENCE

PRELIMINARY HONORS

Harvey Childs Bennett.
Cora Anna Jacobs.
Fred William Kressman.
William Christoph Marti.
John J. Miller.

FINAL HONORS

Edna Sophia Burnham.
Bessie Rose Greene.
Alice Emily Maddock.
John Lossen Pricer.

SPECIAL HONORS

John June Davis, in Entomology.

COLLEGE OF ENGINEERING

PRELIMINARY HONORS

Architecture—
Carrie Louise Clarke.

Architectural Decoration—
Arselia Bessie Martin.

Architectural Engineering—
Henry Dixon Oberdorfer.
Edward Frank Zahrobsky.

Civil Engineering—

Harry Clow Boardman.
Fred Dwight Danford.
Chris Herman Kreiling.
Charles Ernest Ramser.
Lewis Vinton Manspeaker, Jr.
Charles Trescott Ripley.
Milton Frederick Stein.
Charles Sumner Stewart.
Warren Wilkinson Thomas.

Electrical Engineering—

Joseph Ferdinand Chinlund.
Harold Churchill Dean.
Ira Wilmer Dickerson.
Hal Edmund Ercanbrack.

Mechanical Engineering—

Lion Gardiner.
George Albert Herrmann.
Louis Albions Rush.
John Emerson Wolf.

FINAL HONORS

Architecture—

Laurence Justin McCarty.

Architectural Engineering—

Clarence Eugene Noerenberg.

Civil Engineering—

Frank Gordon Hoffman.
Alfred Peter Poorman.
Albert James Schafmayer.
Clement Clarence Williams.
Djalmar Downey Williams.

Electrical Engineering—

Stanley Prince Farwell.
Lloyd Garrison.
Trygve Jensen.
Henry George Treichel.

Mechanical Engineering—

Allen Burton Cooke.
Ernst Otto Jacob.
Richard Dale Jessup.
Martin Laurence Millspaugh.
Alwin Louis Schaller.
George Mauritz Strombeck.

SPECIAL HONORS

Trygve Jensen.
Alfred Peter Poorman.
Alwin Louis Schaller.

COLLEGE OF AGRICULTURE

PRELIMINARY HONORS

John Kennedy Kincaid.
Flora Isabel Joiner.
John Gordon Seely.
John Philemon Stout.

FINAL HONORS

Walter Robert Block.
Samuel Garnett David.
Portia Eunice Gilkerson.
Charles Hubert Oathout.

SCHOOL OF LIBRARY SCIENCE

FINAL HONORS

Alice Sarah Johnson.

COMMISSIONS AS BREVET CAPTAINS, ILLINOIS NATIONAL GUARD. ISSUED BY THE GOVERNOR IN 1907.

James Albert Strawn, Charles Stephen Pillsbury, Francis Cyrus Bagby, Wilfred Lewis, Charles Taylor Moss, James Peter Beck, Harold DeMott Hughes, Walter Robert Block, Willard Leo Egy, Henry George Treichel, John Dudley Ball, Sidney Benjamin Smith, Lester Roy Wilson, Arthur Evans Ray, Burt Thompson Anderson, Fred H. White, Ralph S. Hawley, Guy Derrick Phillips, Carlos Merriam Page.

Reported to the Adjutant General, United States Army, as distinguished Cadets, for the purpose of having their names published in the Register of the United States Army: James Albert Strawn, Charles Stephen Pillsbury, Wilfred Lewis.

ROSTER OF OFFICERS AND NON-COMMISSIONED OFFICERS OF THE UNIVERSITY CORPS OF CADETS IN 1907-8.

Field and Staff—

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Lieutenant Colonel ..... Frank Louis Cook
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Major 2nd Battalion ..... I. C. Nitz
Major 3rd Battalion ..... F. M. Byers
Captain and Adjutant ..... H. C. Williams
Battalion Adjutant (1st B.) (1st Lieut.) ..... H. E. Ercanbrack
Battalion Adjutant (2nd B.) (1st Lieut.) ..... R. A. Collins
Battalion Adjutant (3rd B.) (1st Lieut.) ..... R. D. Glasgow
Sergeant Major ..... L. G. Jones
Chief Trumpeter ..... R. C. Bardwell

Drum Major .....
Sergeant Major (1st B.).....A. L. Nelson
Sergeant Major (2nd B.).....F. A. Lorenz
Sergeant Major (3rd B.).....C. E. Phelps
Color Sergeant.....L. R. Gulley
Color Sergeant .....R. J. Strasser

Company "A'—Captain, V. J. Boothe; First Lieutenant, J. P. Stout; Second Lieutenant, L. H. Almy; First Sergeant, Myron B. Stewart; Sergeants, R. J. Bannon, R. A. Anderson, G. Q. Lewis, C. Van Duyn; Corporals, W. C. Eells, E. Juergens, G. H. Craig, W. E. East, A. L. Johnstone, W. Kunz, A. Hussey, R. D. Clow.

Company "B"—Captain, R. H. Regan; First Lieutenant, H. F. Anderson; Second Lieutenant, J. K. Kincaid; First Sergeant, R. V. Edwards; Sergeants, C. H. Mangold, W. H. Larson, A. B. Meek, H. C. Ackemann; Corporals, A. C. Stadler, R. Garrett, L. C. Corzine, W. R. Manock, M. S. McCollister.

Company "C"—Captain, W. W. Parker; First Lieutenant, C. C. Hubbart; Second Lieutenant, R. G. Clinite; First Sergeant, E. K. Stuart; Sergeants, H. B. Anderson, C. I. Hall, D. C. Patton, L. O. Chamberlain; Corporals, G. A. C. Barth, W. E. Deuchler, H. D. Easterbrook, O. W. Mojonnier, D. Marsh, L. A. Snyder.

Company "D"—Captain, H. E. Kahlert; First Liteutenant, H. R. Cawood; Second Lieutenant, H. E. Ashdown; First Sergeant, C. H. Healy; Sergeants, F. W. Weston, L. C. Gaby, I. W. McDowell, W. B. Burley; Corporals, F. C. Bauer, L. A. Dumond, R. O. Compton, H. W. McCulloch, G. L. Borton, D. C. Patton, R. E. J. Nihan, B. T. Abbott.

Company "E"—Captain, E. A. Weber; First Lieutenant, H. Zehner; Second Lieutenant, H. C. Dean; First Sergeant, A. G. Hughes; Sergeants, E. Cornwell, T. E. O'Donnell, M. A. Berns, F. H. Swits, W. W. Day; Corporals, H. Penn, P. Kautz, L. A. Briggs, C. H. Lamb, K. H. Cox, R. R. Seymour, S. E. Krebs.

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Davis, L. Mauel, F. R. Tate, B. H. Harrison, A. L. Sears, P. A. Tracy.

Company "G"—Captain, D. J. Grant; First Lieutenant, C. B. Lee; Second Lieutenant, ————————; First Sergeant, H. M. Turner; Sergeants, E. Turk, C. F. Hassenstein, G. H. Smith, P. W. Seiter, E. J. Baker; Corporals, E. W. Lyon, W. J. Putnam, H. C. Day, C. W. Murphy, H. S. Ingram, P. W. Freeman, A. F. Lawrence.

Company "H"—Captain, G L. Fossland; First Lieutenant, R. H. Riesche; Second Lieutenant, K. H. Talbot; First Sergeant, J. T. Hanley; Sergeants, L. D. Hinman, F. C. Romig, G. O. Cogswell, E. L. Burbidge; Corporals, C. A. Burns, G. C. Henne, A. F. Westlund, R. C. Cogswell, A. Alexander.

Company "I"—Captain, W. H. Almy; First Lieutenant, F. H. Lindley; Second Lieutenant, ————————; First Sergeant, V. B. Fredenhagen; Sergeants, R. G. Mason, J. K. Enger, C. E. Erickson, W. R. McLean; Corporals, F. D. Preston, E. S. Hight, A. C. Foreman, H. F. Lindley, D. Griffith, H. B. Prout, O. B. Rives.

Company "K"—Captain, J. W. Swartz; First Lieutenant, R. W. Rounseville; Second Lieutenant, I. W. Fiske; First Sergeant, W. E. McKeever; Sergeants, S. S. Hussey, C. F. Williams, R. S. Mason, C. W. Love; Corporals, J. D. Hood, R. N. Dunlap, R. Lowe, G. A. Cooper.

Company "L"—Captain, E. O. Furrow; First Lieutenant, J. J. Walledom; Second Lieutenant, J. H. Sontag; First Sergeant, B. A. Horn; Sergeants, R. J. Kirkpatrick, A. L. Tull, O. E. Pence; Corporals, D. M. Tilson, F. M. Taylor, O. J. Matousek, J. H. Ball, D. Petrie, P. C. Peine, F. O. Lovins, J. J. Langan.

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Dady; First Sergeant, A. Thomson; Sergeants, R. W. Skillin, C. L. Engstrom, D. T. Hoskins, S. S. Cook, L. M. Western.

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Headquarters Detachment—Trumpeters, R. C. Bardwell, W. C. Snow, H. G. Paul, H. A. Swope, A. E. Rathburn, H. W. Stewart.

ROSTER

WINNING ORGANIZATIONS, 1907—ANNUAL COMPETITIVE DRILL

INDIVIDUAL

Cadet Lloyd George Jones.

ARTILLERY

University Bronze Medals.

First Lieutenant, G. D. Phillips.
Gunner, A. O. Dady.
Cadet Private, P. L. Barton.
Cadet Private, G. D. Cairns.
Cadet Private, J. R. Fugard.
Cadet Private, O. G. Hiveley.
Cadet Private, J. V. Houston.
Cadet Private, G. M. Ilg.
Cadet Private, C. McCool.
Cadet Private, C. T. Ripley.
Cadet Private, G. A. Van Brunt.

INFANTRY

University Bronze Medals.

COMPANY COMPETITIVE, 1907

Company "M," University Regiment.

Captain, F. H. White.

First Lieutenant, V. J. Boothe. Second Lieutenant, L. H. Hazard.

First Sergeant, H. R. Cawood.

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Thompson, S. M.
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Van Duyn, P.
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Willerton, T. P.
Woodin, C. R.

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University Bronze Medals.

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Corporal, J. A. Countryman.
Corporal, F. K. Shrader.
Private, H. S. Hill.
Private, R. L. Logan
Private, H. L. Myers.
Private, J. E. Morris.
Private, C. W. Mueller
Private, J. F. Treakle.

RIFLE COMPETITION

University Bronze Medals.

Company "G" Team.

Private, Bear, L. R.
Private, Carper, J.
Private, Corrington, C. E.
Private, Heislar, C. S.
Private, Stinson, S. A.

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